

GROUNDWATER MONITORING  
DATA SUMMARY REPORT  
FIRST QUARTER 1996

DOUGLAS AIRCRAFT COMPANY C-6  
FACILITY  
TORRANCE, CALIFORNIA

K/J 944016.01

APRIL 1996

**Kennedy/Jenks Consultants**

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## **1.0 INTRODUCTION**

The Douglas Aircraft Company (DAC) C-6 Facility is located at 19503 South Normandie Avenue, Torrance, California (Figure 1). Quarterly groundwater sampling is being conducted in response to the California Regional Water Quality Control Board - Los Angeles Region correspondence to DAC, dated 7 April 1992. This report summarizes laboratory analytical data generated through the chemical analysis of groundwater samples collected between 29 February and 4 March, First Quarter 1996.

## **2.0 QUARTERLY MONITORING PROGRAM**

First Quarter 1996 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 29 February 1996 prior to initiating purging of groundwater from any observation. Static water depths on monitoring wells (MW-9, MW-18 and MW-19) located in the southern portion of the DAC property installed for the Montrose Chemical Corporation Remedial Investigation were not measured for this quarter.

Groundwater samples were collected from the following fifteen wells (Figure 2) and chemically analyzed for volatile organic compounds (VOCs) by EPA Method 8240/8260 for the First Quarter 1996.

WCC-1S, WCC-2S, WCC-3S, WCC-4S, WCC-5S, WCC-6S, WCC-7S, WCC-8S, WCC-9S, WCC-10S, WCC-11S, WCC-12S, WCC-1D, WCC-3D, and DAC-P1.

Table 1 summarizes observation well construction details. Tables 2 and 3 summarize the results of chemical analysis of groundwater samples and duplicates for major and minor constituents at the C-6 facility, respectively. Chemicals detected in samples from each observation well are shown in Figure 3. Table 4 summarizes available measured groundwater elevations to date. Estimated groundwater elevation contours for the First Quarter are presented in Figure 4. Historical chemical concentration profiles for the indicator chemicals trichloroethene and 1,1-dichloroethene are shown in Figure 5. Copies of laboratory data sheets, laboratory/field Quality Control data sheets, groundwater purge and sample forms, and Chain-of-Custody records are included in Appendices A, B, C, and D respectively.

### **2.1 Groundwater Sampling Procedures**

Prior to collecting groundwater samples from each well, groundwater was purged using an electrical submersible pump that was temporarily installed in the observation well. After lowering the pump to the approximate mid-point of the saturated well screen, approximately three to five wetted casing volumes of groundwater were purged from the well until the following groundwater monitoring parameters had stabilized to within 10% of preceding values: pH, electrical conductivity, and temperature. Purged groundwater was stored onsite in DOT approved 55 gallon barrels pending the results of laboratory analysis of samples.

Following groundwater purging, the flow rate of the submersible pump was reduced to 250 to 500 milliliters/minute. To collect a representative groundwater sample, the pump intake valve was positioned at the approximate mid-point of the saturated well screen interval. The recovered water was discharged into three labeled 40-ml capacity vials, preserved with HCl.

## **2.2 Field QA/QC Procedures**

Duplicate groundwater samples were collected for the sampling round on 29 February, and 1 and 4 March 1996 for quality control purposes. The duplicates were collected in three HCl-preserved vials and identified by inserting the collection date after "DW-" (DW-022996). No further sample identification was provided to the laboratory. Duplicate samples were taken on 29 February, 1 March, and 4 March, from observation wells WCC-1D, WCC-8S, and DAC-P1, respectively.

Following decontamination of the submersible pump, and prior to collection of groundwater samples from the successive well, an equipment rinsate blank was prepared for laboratory analysis. The equipment rinsate blank was prepared by pouring Reagent Grade II water, prepared by the analytical laboratory, over the pump and collecting the rinsate in two 40-ml vials preserved with HCl. The blanks were identified following a similar protocol to that used for duplicate water samples and are identified as "EB followed by the date". The wells sampled before and after rinsate blank preparation were recorded. EB022996, EB030196, and EB030496 were collected after sampling wells WCC-10, WCC-7S, and WCC-6S. Trip blanks were also analyzed for sampling and shipping activities for each day of sampling and are identified as trip blanks or travel blanks.

All groundwater, duplicate, and field blank samples were transported in ice-cooled chests to Curtis & Tompkins, Ltd., General Analytical Laboratory, Irvine, California using U.S. EPA-recommended Chain-of-Custody procedures.

## **3.0 EVALUATION OF ANALYTICAL RESULTS**

### **3.1 Groundwater Gradient**

Groundwater levels were measured prior to sampling on 29 February 1996 (Table 4 and Appendix C). The shallow zone groundwater elevations measured for this quarter ranged from 15.19 feet below mean sea level (MSL) to 17.02 feet below MSL. An estimated potentiometric surface map for the shallow zone as measured on this day is presented as Figure 4. The groundwater gradient in the shallow zone was generally south-southeast with a southerly directed trough-like depression between observation wells WCC-10S and WCC-4S.

Insufficient data (two wells) are available to define the groundwater gradient in the deeper zone. Groundwater elevations in the two wells (WCC-1D and WCC-3D) were approximately 16.15 and 15.95 feet below MSL, respectively.

### 3.2 Analytical Data

The results of chemical analysis of groundwater and duplicate samples are summarized in Tables 2 and 3. Table 2 lists major constituents and Table 3 lists additional minor constituents of samples tested. The duplicate groundwater samples are indicated by an asterisk and are presented with the "original" groundwater samples. These tables include cumulative analytical data for all monitoring wells and detection limits (where available) for the listed chemicals.

The following observations are noted:

- Data for groundwater samples collected from well DAC-P1, located at the upgradient property boundary, indicate a TCE concentration of 16,000 micrograms per liter ( $\mu\text{g}/\text{L}$ ) coming onto DAC's property. Other chemicals detected in well DAC-P1 include 1,1-DCE, cis-1,2-DCE, and toluene. The concentrations of these chemicals were within historical ranges. Low level detections of 1,1-DCA, 1,1,1-TCA, and trans-1,2-DCE reported in the previous sample round for the first time in several years were not detected in this quarter's analysis. DAC-P1 is screened in the shallow zone.
- Background concentrations of TCE and 1,1-DCE in the shallow zone upgradient or cross gradient wells WCC-10S, WCC-2S, and WCC-11S decreased slightly, but are within historical ranges at concentrations of 21 to 170  $\mu\text{g}/\text{L}$  of TCE and less than 5 to 30  $\mu\text{g}/\text{L}$  of 1,1-DCE.
- Groundwater elevation data (Figure 4) and chemical concentration data (Figure 3) indicate that chemical transport in the shallow zone is generally in a southerly to southeasterly direction in the vicinity of buildings 36 and 41. Most chemical concentration data from the eastern boundary observation wells (WCC-5S, and WCC-9S) are within the same range or lower than upgradient or cross gradient "background level" wells (WCC-10S, WCC-2S and WCC-11S).
- WCC-3S data show decreases in 1,1-DCE and toluene for the fourth consecutive quarter, to the lowest concentrations within the historical range.
- Decreases of 1,1-DCE, 1,1,1-TCA, TCE, and toluene concentrations were observed in well WCC-3D, though the concentrations were within historical variation.
- Other chemical concentration variances within observation wells were typical of historical ranges.
- Analytical data from the equipment rinsate blanks, sample duplicates, trip blanks, and laboratory spikes and duplicates are indicative of reliable data. Low level detections of bromodichloromethane and chloroform in the rinsate blank from 1 March were not reported in the samples following the equipment blank and are not considered to be problematic.

## **TABLES**

**TABLE 1**  
**OBSERVATION WELL CONSTRUCTION DETAILS**  
**GROUNDWATER MONITORING DATA SUMMARY REPORT**  
**FIRST QUARTER, 1996**  
**DOUGLAS AIRCRAFT C-6 FACILITY**  
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Well	Date Constructed	Well Diameter (inches)	Total Depth of Borehole (Feet)	Depth of Screened Interval (Feet)	Depth to top of Sand Filter Pack (Feet)	Well Casing Material and Slot Size		Hydrogeologic Unit Screened
WCC-1S <sup>1</sup>	3/26/87	2	91	78-88	72	Schedule 40 PVC	0.020-Inch Slots	Shallow
WCC-2S <sup>1</sup>	10/28/87	4	90.5	70-90	63	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-3S <sup>1</sup>	10/26/87	4	92	69-89	64	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-4S <sup>1</sup>	10/27/87	4	91.5	70.5-90.5	65	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-5S <sup>1</sup>	11/24/87	4	91	60.5-91	58.5	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-6S <sup>2</sup>	9/22/89	4	91	60-90	N/A <sup>3</sup>	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-7S <sup>2</sup>	6/8/89	4	90.5	60-90	54	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-8S <sup>2</sup>	6/12/89	4	90	59.5-89.5	54	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-9S <sup>2</sup>	9/21/89	4	91.5	60-90	55	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-10S	6/7/89	4	90.8	60-90	54	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-11S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-12S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC	0.010-Inch Slots	Shallow
DAC-P <sup>1</sup>	9/25/89	4	N/A	60-90(?)	N/A	Schedule 40 PVC	0.010-Inch Slots	Shallow
WCC-1D <sup>2</sup>	6/30/89	4	140	120-140	115	Schedule 40 PVC	0.010-Inch Slots	Deeper
WCC-3D <sup>2</sup>	6/27/89	4	140	120-140	114	Schedule 40 PVC	0.010-Inch Slots	Deeper
MW-8 <sup>4</sup>	5/10/89	4	85	65-80	62	PVC blank and 316 Stainless Steel	0.020-Inch Slot Screen	Shallow
MW-9 <sup>4</sup>	5/9/89	4	85	66-81	61	PVC blank and 316 Stainless Steel	0.020-Inch Slot Screen	Shallow
MW-18 <sup>4</sup>	3/29/90	4	84	68-83	67	PVC blank and 316 Stainless Steel	0.020-Inch Slot Screen	Shallow
MW-19 <sup>4</sup>	3/30/90	4	80	63-79	62	PVC blank and 316 Stainless Steel	0.020-Inch Slot Screen	Shallow

**NOTES:**

1. Data from Woodward-Clyde Consultants Phase II Report, May 1988
2. Data from Woodward-Clyde Consultants Phase III Report, March 1990
3. N/A = Not Available
4. Data from Hargis + Associates, Final Draft, Remedial Investigation, Montrose Site, Torrance, Ca., October 1992

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS**  
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1 \* Duplicate sample also analyzed. 2 - Not Detected (Detection Limit not specified). 3 - nr: Not Reported 4 ... Estimated

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COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.												
WELL ID.	SAMPLE DATE	1,1-DCE	1,1-DCA	1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-7S	07/13/89	850	<10	110	1,300	<50	26	11	<10	<10	<30	-
	08/23/89	1,100	<30	66	1,400	<100	31	<30	-	-	<30	-
	11/18/91	390	-	-	1,200	-	-	-	-	-	-	<10
	06/17/92	230	<5	<5	560	<10	<5	<5	<5	<5	<5	<30
	09/23/92	140	<5	<5	570	<30	<5	<5	<5	<5	<5	<30
	12/08/92	140	<5	<5	430	<30	<5	<5	<5	<5	<5	<10
	03/17/93	77	<2	<2	200	<5	4	2	2	2	2	<40
	06/07/93	120	<2	<2	330	<20	4	2	2	2	2	<80
	08/25/93	70	<4	<4	210	<40	4	4	4	4	4	<40
	11/19/93	56	<2	<2	130	<20	2	2	2	2	2	<40
	2/24/94	75	<2	<2	140	<20	2.5	2	2	2	2	<40
	6/13/94	58	<2	<2	110	<20	2.5	2	2	2	2	<40
	9/8/94	50	13	<2	250	<20	2	2	2	2	2	<40
	12/22/94	94	<2	<2	94	<20	2	2	2	2	2	<40
	3/14/95	53	<2	<2	84	<20	2	2	2	2	2	<40
	*6/13/95	110/98	<2/<2	<2/<2	230/220	<20/<20	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	9/7/95	150	<5	<5	200	<10	5	5	5	5	5	<10
	12/15/95	98	<2	<2	140	<2	2	2	2	2	2	nr
	3/01/96	91	<5	<5	120	<10	5	5	5	5	5	<10
WCC-8S	07/13/89	430	<5	160	240	<30	7	9	<5	<5	<5	-
	08/23/89	820	<5	130	430	<30	7	45	<5	<5	<5	-
	11/15/91	2,600	<25/<50	400	3,000	<50/<100	40	40	<25/<50	<25/<50	<25/<50	<50/<100
	*06/17/92	2,200/2,300	<25/<50	180/180	2,400/2,600	<50/<100	<20	20	<20	<20	<20	<100
	09/23/92	2,800	<20	200	3,100	<100	20	30	20	20	<20	<100
	12/08/92	2,000	<20	100	2,500	<100	15	26	10	15	<2	<10
	03/17/93	1,800	11	180	1,500	<5	200	40	45	20	20	<400
	06/08/93	3,000	<20	300	2,000	<200	<20	20	50	20	24	<400
	08/25/93	3,100	<20	330	2,200	<200	<20	35	20	20	<20	<400
	11/19/93	3,300	<20	330	2,000	<200	<20	40	40	40	<40	<800
	2/24/94	3,400	<20	300	1,200	<200	<20	35	20	20	<20	<400
	6/13/94	4,000	<40	290	2,200	<400	<40	44	40	40	<50	<50
	9/9/94	4,600	<50	280	3,100	<500	<50	50	50	50	<50	<1000
	12/22/94	4,000	<20	230	2,100	<200	43	20	25	20	<20	<400
	3/14/95	4,500	<40	220	2,600	<400	41	40	40	40	<40	<800
	6/13/95	4,200	<40	150	2,400	<400	40	40	40	40	<40	<800
	9/7/95	2,200	10	110	1,700	<10	15	28	9	22	<5	<10
	12/15/95	4,200	16	120	2,300	nr	18	40	2	10	<2	nr
	*3/01/96	3,500/3,600	<20/<20	120/120	2,100/2,200	<40/<40	<20/<20	40/41	<20/<20	<20/<20	<20/<20	<40/<40

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WELL I.D.	SAMPLE DATE	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.						MEK				
		1,1-DCE	1,1-DCA	1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	
WCC-11S	11/15/91	10	-	-	80	<10	-	-	-	-	-	<10
	06/16/92	21	<5	<5	120	<5	<5	2	<1	<1	<1	<5
	09/21/92	17	<1	<1	140	<5	<5	6	<1	<1	<1	<5
	12/08/92	13	<1	<1	83	<5	<5	4	<2	<2	<2	<10
	03/16/93	25	<2	<2	160	<5	<5	5	<2	<2	<2	<40
	06/07/93	16	<2	<2	110	<20	<20	5	<2	<2	<2	<40
	08/24/93	14	<2	<2	97	<20	<20	4	<2	<2	<2	<40
*11/19/93	14/14	<2/<2	<2/<2	100/100	<20/<20	3/3	<2/<2	<2/<2	<2/<2	<2	<2	<40
2/23/94	16	<2	<2	100	<20	4	<2	<2	<2	<2	<2	<40
6/10/94	16	<2	<2	85	<20	4.8	<2	<2	<2	<2	<2	<40
9/8/94	20/19	<2/<2	<2/<2	140/120	<20/<20	4.8/5.9	<2/<2	<2/<2	<2/<2	<2	<2	<40
12/21/94	26	<2	6	130	<20	4.2	<2	<2	<2	10	<10	<40
3/13/95	16	<2	<2	100	<20	5.6	<2	<2	<2	<2	<2	<40
6/12/95	22	<2	<2	130	<20	6	<2	<2	<2	<2	<2	<40
9/6/95	31/30	<5/<5	<5/<5	190/200	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5	<5	<10
12/15/95	34	<2	<2	210	nr	5	<2	<2	<2	<2	<2	nr
3/1/96	30	<5	<5	170	<10	<5	<5	<5	<5	<5	<5	<10
WCC-12S	11/18/91	300	-	17	900	<10/<10	-	-	-	-	-	<10/10
*06/16/92	250/260	<5/5	<5/<5	660/710	<5	<5/<5	<5/<5	<5/<5	<5/<5	<1	<1	<5
09/22/92	130	7	1	500	<30	3	<1	3	<5	<5	<5	<30
12/08/92	160	<5	<5	550	<30	5	<5	5	<2	<2	<2	<10
03/17/93	100	7	2	410	<5	4	8	3	<2	<2	<2	<40
06/07/93	130	2	2	370	<20	5	<2	2	<4	<4	<4	<80
08/25/93	100	<4	<4	390	<40	4	<4	4	<2	<2	<2	<40
11/19/93	45	9	<2	220	<20	2	<2	<2	<2	<2	<2	<40/<40
2/24/94	89/77	7.7/3.9	<2/<2	270/220	<20/<20	2.9/3.3	<2/<2	<2/<2	<2/<2	<2	<2	<40
6/13/94	84	15	<2	270	<20	2.6	<2	<2	<2	<2	<2	<40
9/9/94	97	<2	<2	160	<20	2	<2	<2	<2	<2	<2	<40
12/22/94	52	17	<2	190	<20	2.1	<2	<2	<2	<2	<2	<40
3/14/95	53	18	<2	230	<20	2	<2	<2	<2	<2	<2	<40
6/12/95	72	28	<2	330	<20	2	<2	<2	<2	<2	<2	<10
9/6/95	60	32	<5	300	<10	5	<5	3	<5	<5	<5	nr
12/15/95	44	10	<2	140	nr	5	<5	2	<5	<5	<5	<10
3/01/96	47	13	<5	150	<10	<5	<5	<5	<5	<5	<5	<10

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WELL I.D.	SAMPLE DATE	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.						MEK			
		1,1-DCE	1,1-DCA	1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE
WCC-3D	07/25/89	<1	<1	49	4	<5	11	<1	<1	3	-
	08/23/89	<10	<10	32	<10	<50	<10	-	<10	-	-
	11/14/91	20	-	60	-	-	-	-	-	-	<10
	06/16/92	510	<5	880	23	<10	<5	<5	<5	8	<5
	09/22/92	21	<1	27	2	<5	<1	<1	<1	<1	<5
	12/07/92	120	<1	130	5	<5	<1	<1	<1	3	<5
	*03/16/93	950/1,000	6/6	2,000/2,000	50/47	<5/<5	2/2	9/9	<2/<2	6/6	<10/<10
	06/08/93	110	<2	110	6	<20	<2	<2	<2	<2	<40
	08/24/93	120	<2	100	5	<20	<2	<2	<2	3	<40/<80
	*11/18/93	610/840	<2/<4	410/640	17/23	<20/<40	<2/4	4/4	<2/4	6/8	<80/<80
	370/420	<4/<4	530/590	23/25	<40/<40	<4/<4	<4/<4	<4/<4	<4/<4	12/13	<200
	2/23/94	720	<10	1,300	96	<100	<10	<10	<10	<10	<1,000
	6/13/94	3,700	<50	5,600	490	<500	<50	<50	<50	<50	<80
	9/9/94	5,200	10	6,300	540	<40	15	22	4	8,6	5,10
	12/21/94	3,300/3,200	<40/<20	4,000/3,900	370/380	<400/<200	<40/<20	<40/<20	<40/<20	3,200/3,400	<800/<400
	*3/14/95	1,800	<10	2,100	200	<100	<10	<10	<10	13	<200
	6/13/95	3,400	13	4,100	520	nr	30	5	5	4,700	<10
	9/7/95	111	<2	90	32	nr	2	2	2	88	nr
	12/16/95	53	<5	40	23	<10	<5	<5	<5	6	<10
	3/04/96										

ug/l = micrograms per liter  
 1,1-DCE = Dichloroethene  
 1,1-DCA = Dichloroethane  
 1,1-TCA = 1,1,1-Trichloroethane  
 TCE = Trichloroethene  
 MIBK = Methyl Isobutyl ketone  
 cis-1,2-DCE = cis-1,2-Dichloroethene  
 trans-1,2-DCE = trans-1,2-Dichloroethene  
 MEK = Methyl ethyl ketone

Notes:

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**SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS**  
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**FIRST QUARTER 1986**  
**DOUGLAS AIRCRAFT C-6 FACILITY**  
**TORRANCE, CA**

1 • Duplicate sample also analyzed. 2 - Not Detected ( Detection Limit not specified )

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TABLE 3  
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FIRST QUARTER 1986  
DOUGLAS AIRCRAFT C-6 FACILITY  
TORRANCE, CA

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.											
WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetrachloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethy-Benzene	1,2-DCA
WCC-4S	11/02/87	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	<10	<10	<10
	7/13/89	-	-	-	-	-	-	-	<10	<10	<10
	08/23/89	-	-	-	-	-	-	-	<10	<10	<10
	11/18/91	<150	-	-	-	-	-	-	<10	<10	<10
	06/17/92	<50	<10	<10	20	50	<10	<10	<10	<10	<10
	09/23/92	<50	<10	<5	<10	<5	<2	<2	<2	<2	<2
	12/08/92	<50	<10	<10	<40	<10	<10	<10	<10	<10	<10
	03/17/93	<10	<2	<10	<20	<10	<10	<10	<10	<10	<10
	06/08/93	<200	<10	<10	<20	<10	<10	<10	<10	<10	<10
	08/25/93	<200	<10	<4	<20	<4	<4	<4	<4	<4	<4
	11/19/93	<80	<4	<4	<20	<4	<4	<4	<4	<4	<4
	2/24/94	<80	<4	<4	<20	<4	<4	<4	<4	<4	<4
	6/13/94	<80	<12	<4	<20	<4	<8	<8	<4	<4	<4
	9/9/94	<400	<60	<20	<100	<20	<40	<20	<20	<20	<20
	12/22/94	<200	<20	<10	<50	<10	<10	<10	<10	<10	<10
	3/14/95	<80	<8	<4	<20	<4	<8	<8	<4	<4	<4
	6/13/95	<130	<6.6	<6.6	<33	<6.6	<13	<6.6	<6.6	<6.6	<6.6
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2
	3/4/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5
WCC-5S	11/30/87	-	-	-	-	-	-	-	-	-	-
	01/08/88	-	-	-	-	-	-	-	-	-	-
	*07/13/89	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	<10	<5	<5	<5	<3	<3	<2	<2	<2
	06/15/92	<5	<5	<5	<5	<5	<10	<10	<2	<2	<2
	09/21/92	<5	<5	<2	<2	<2	<4	<4	<4	<2	<2
	03/16/93	<10	<40	<2	<2	<2	<4	<4	<2	<2	<2
	06/07/93	<40	<40	<2	<2	<2	<10	<10	<2	<2	<2
	08/24/93	<40	<40	<2	<2	<2	<4	<4	<4	<4	<4
	11/18/93	<40	<40	<2	<2	<2	<10	<10	<2	<2	<2
	2/23/94	<40	<40	<2	<2	<2	<2	<2	<2	<2	<2
	*6/10/94	<40	<40	<6	<6	<6	<20	<20	<2	<2	<2
	9/8/94	<40	<40	<6	<6	<6	<10	<10	<2	<2	<2
	12/21/94	<40	<40	<4	<4	<4	<10	<10	<2	<2	<2
	3/13/95	<40	<40	<4	<2	<2	<10	<10	<2	<2	<2
	6/12/95	<40	<40	<2	<2	<2	<5	<5	<5	<5	<5
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<5	<5	<5	<5	<5
	2/29/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5

1 • Duplicate sample also analyzed. 2 - Not Detected ( Detection Limit not specified )

**TABLE 3**  
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**TORRANCE, CA**

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TABLE 3  
SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS  
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DOUGLAS AIRCRAFT C-6 FACILITY  
TORRANCE, CA

WELL I.D.	SAMPLE DATE	COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.						Ethy-Benzene	1,2-DCA
		Total	Xylenes	Acetone	Methylene Chloride	Carbon Tetrachloride	1,1,2-TCA		
WCC-8S	07/13/89	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	<20	40	<20	<20	<20
	11/15/91	<150/<300	-	-	<20	30	<20	<20	<20
	*06/17/92	<100	<20	<2	<5	<5	<2	<2	<2
	09/23/92	<100	<20	<20	<20	<100	<40	<20	<20
	12/08/92	<100	<2	<2	<20	<20	<40	<20	<20
	03/17/93	<10	<20	<20	<20	<20	<40	<20	<20
	06/08/93	<400	<20	<20	<40	<20	<40	<20	<20
	08/12/93	<400	<20	<20	<20	<100	<40	<20	<20
	11/19/93	<400	<20	<20	<20	<100	<40	<20	<20
	2/24/94	<400	<20	<20	<20	<100	<40	<20	<20
	6/13/94	<800	<120	<40	<200	<40	<80	<40	<40
	9/9/94	<1000	<150	<50	<250	<50	<100	<50	<50
	12/22/94	<400	<40	<20	<100	<20	<40	<20	<20
	3/14/95	<800	<80	<40	<200	<40	<80	<40	<40
	6/13/95	<800	<40	<40	<200	<40	<80	<40	<40
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2
	*3/01/96	<40/<40	<40/<40	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20
WCC-9S	10/06/89	-	-	-	-	-	-	-	-
	11/1/91	-	-	-	-	-	-	-	-
	06/1/92	<30	<1	<1	10	<1	<1	<1	<1
	09/21/92	<5	<1	<1	3	<5	<2	<5	<2
	12/07/92	<5	<1	<2	<2	<4/<4	<2/<2	<2	<2
	03/16/93	<10	<2	<5	<10	<5	<2	<5	<2
	*06/07/93	<40/<40	<2/<2	<2	<2	<4	<2	<2	<2
	08/24/93	<40	<2	<2	<10	<2	<4	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2
	2/24/94	<40	<4	<2	<2	<2	<4	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2
	*12/21/94	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2
	*6/1/95	<40/<40	<2/<2	<2	<10/<10	<2/<2	<4/<4	<5	<5
	9/6/95	<10	<5	<5	<5	<2	<2	<2	<2
	12/12/95	<2	<4	<5	<5	<5	<5	<5	<5
	2/29/96	<10	<10	<5	<5	<5	<5	<5	<5

1 • Duplicate sample also analyzed. 2 - Not Detected ( Detection Limit not specified )

**TABLE 3**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS**  
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**FIRST QUARTER 1996**  
**DOUGLAS AIRCRAFT C-6 FACILITY**  
**TORRANCE, CA**

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**Torrance, CA**

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**FIRST QUARTER 1996**  
**Douglas Aircraft C-6 Facility**  
**Torrance, CA**

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/L.

**ug/l = micrograms per liter**

**o<sub>2</sub>CE = Tetrachloroethene**

**1,1,2-TCA=1,1,2-Trichloroethane**

**2,DCA = 1,2-Dichloroethane**

Notes

1 • Duplicate sample also analyzed. 2 - Not Detected ( Detection Limit not specified )

**SUMMARY OF GROUNDWATER ELEVATION DATA  
FIRST QUARTER 1996  
DOUGLAS AIRCRAFT C-6 FACILITY  
TORRANCE, CALIFORNIA  
K/J 944016.01**

Observation Well	Reference Point <sup>1</sup> Elevation (Feet Above MSL) <sup>2</sup>	Water Level Elevation (Feet Above Mean Sea Level)								
		2/23/94	6/10/94	9/8/94	12/21/94	3/13/95	6/12/95	9/20/95	12/12/95	2/29/96
WCC-1S	50.7	-17.61	-17.23	-17.25	-17.12	-17.12	-16.53	-16.27	-16.05	-15.80
WCC-2S	50.59	-17.49	-17.07	-17.2	-17.17	-17.08	-16.37	-16.19	-15.86	-15.77
WCC-3S	51.19	-17.67	-17.19	-17.31	-17.28	-17.22	-16.58	-16.37	-16.06	-15.93
WCC-4S	49.69	-17.77	-17.32	-17.37	-17.31	-17.23	-16.61	-16.38	-16.16	-17.02
WCC-5S	48.22	-17.78	-17.33	-17.33	-17.25	-17.19	-16.56	-16.35	-16.14	-16.02
WCC-6S	50.95	-17.92	-17.48	NM <sup>3</sup>	-17.45	-17.36	16.75	-16.64 <sup>4</sup>	-16.30	-16.17
WCC-7S	48.29	-18.22	-17.82	-17.8	-17.74	-17.54	-17.03	-16.82	-16.59	-16.46
WCC-8S	50.56	-17.49	-17.11	-17.14	-17.12	-17.29	-16.42	-16.16	-15.89	-15.76
WCC-9S	47.01	-18.09	-18.63	-19.08	-19.08	-17.51	-17.41	-16.79	-16.64	-16.49
WCC-10S	51.12	-17.07	-16.67	-17.03	-16.97	-16.56	-16.05	-15.89	-15.54	-15.22
WCC-11S	49.97	-16.96	-16.45	-16.58	-16.63	-16.48	-15.83	-15.59	-15.35	-15.19
WCC-12S	46.92	-18.13	-17.74	-17.79	-17.67	-17.63	-17.00	-16.79	-16.54	-16.40
DAC-P1	52.44	-16.74	-16.6	-16.48	-16.25	-16.41	-15.94	-15.66	-15.40	
WCC-1D	50.45	-17.83	-17.47	-17.66	-17.55	-17.36	-16.79	-16.60	-16.31	-16.15
WCC-3D	51.18	-18	-17.39	-17.47	-17.42	-17.27	-16.67	-16.47	-16.17	-15.95
MW-8 <sup>5</sup>	49.09	NA <sup>6</sup>	NA	NA	NA	NA	NA	NA	NA	NA
MW-9 <sup>5</sup>	48.67	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18 <sup>5</sup>	50.29	NA	NA	NA	NA	NA	-18.91	NA	NA	NA
MW-19 <sup>5</sup>	46.55	NA	NA	NA	NA	NA	-18.06	NA	NA	NA

Notes:

1. Reference point is north side, top of well casing
2. Reference point elevation measured by Hargis + Associates, Inc.
3. Water Level Elevation not measured due to wellhead obstructions.
4. Well WCC-6S could not be opened on 20 September 1995. The water level elevation shown was measured on 6 September 1995.
5. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation
6. NA - Not Available

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA  
 FIRST QUARTER, 1996  
 DOUGLAS AIRCRAFT C-6 FACILITY  
 TORRANCE, CALIFORNIA

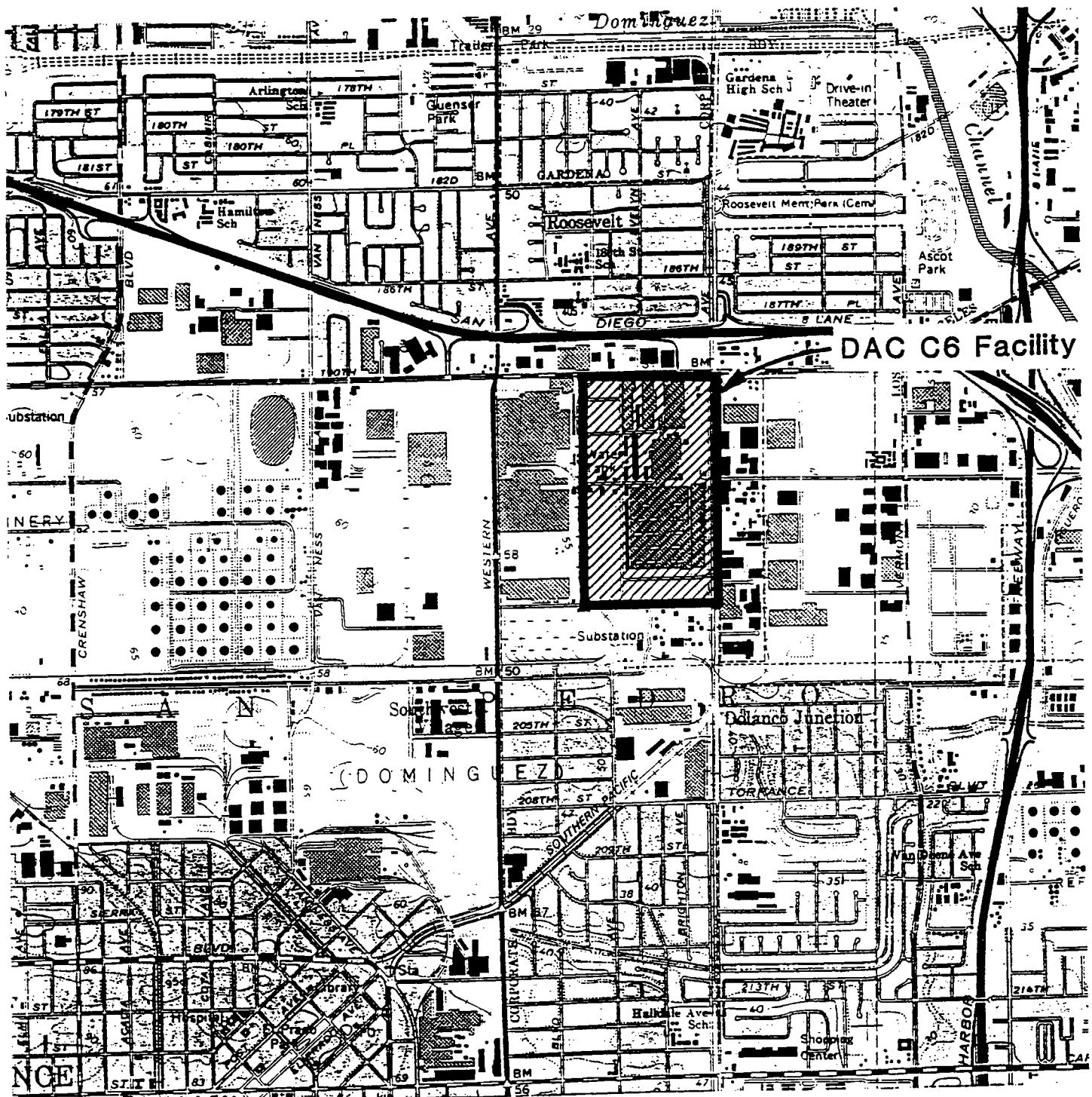
Page 2 of 2

Observation Well	Reference Point <sup>1</sup> Elevation (Feet Above MSL) <sup>2</sup>	Water Level Elevation (Feet Above Mean Sea Level)								
		11/13/87 <sup>3</sup>	10/18/89 <sup>4</sup>	6/15/92	9/21/92	1/5/93	4/9/93	6/7/93	8/24/93	11/18/93
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34	-18.79	-18.75	-18.25	-18
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51	-18.64	-18.63	-18.15	-17.87
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73	-18.83	-18.82	-18.36	-18.01
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34	-18.86	-18.78	-18.37	-18.16
WCC-5S	48.22	NA <sup>5</sup>	-19.7	-19.13	-19.42	-19.32	-18.83	-18.78	-18.38	-18.13
WCC-6S	50.95	NA	-19.7	-19.4	-19.64	-19.5	-19.03	-18.97	-18.55	-18.32
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76	-19.3	-19.23	-18.83	-18.6
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19	-18.69	-18.61	-18.19	-17.89
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56	-19.09	-19.09	-18.69	-18.42
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.1	-18.42	-18.33	-17.83	-17.54
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69	-18.13	-18.04	-17.6	-17.36
WCC-12S	46.92	NA	NA	-19.6	-19.9	-19.74	-19.26	-19.2	-18.78	-18.58
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02	-17.46	-17.38	-17.03	-16.76
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61	-19.1	-19	-18.53	-18.34
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52	-18.87	-18.85	-18.4	-18.18
MW-8 <sup>6</sup>	49.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9 <sup>6</sup>	48.67	NA	NA	NA	NA	NA	NA	-20.58	NA	NA
MW-18 <sup>6</sup>	50.29	NA	NA	NA	NA	NA	NA	-20.88	NA	NA
MW-19 <sup>6</sup>	46.55	NA	NA	NA	NA	NA	NA	-20.13	NA	NA

## Notes:

1. Reference point is north side, top of well casing.
2. Reference point elevation measured by Hargis + Associates.
3. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988.
4. Data taken from Woodward-Clyde Consultants Phase III Report, May 1990.
5. NA - Not Available
6. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation.

## **FIGURES**



Kennedy/Jenks Consultants

Douglas Aircraft Company  
C6 Facility

## **Site Vicinity Map**



0 1,000 2,000 FEET

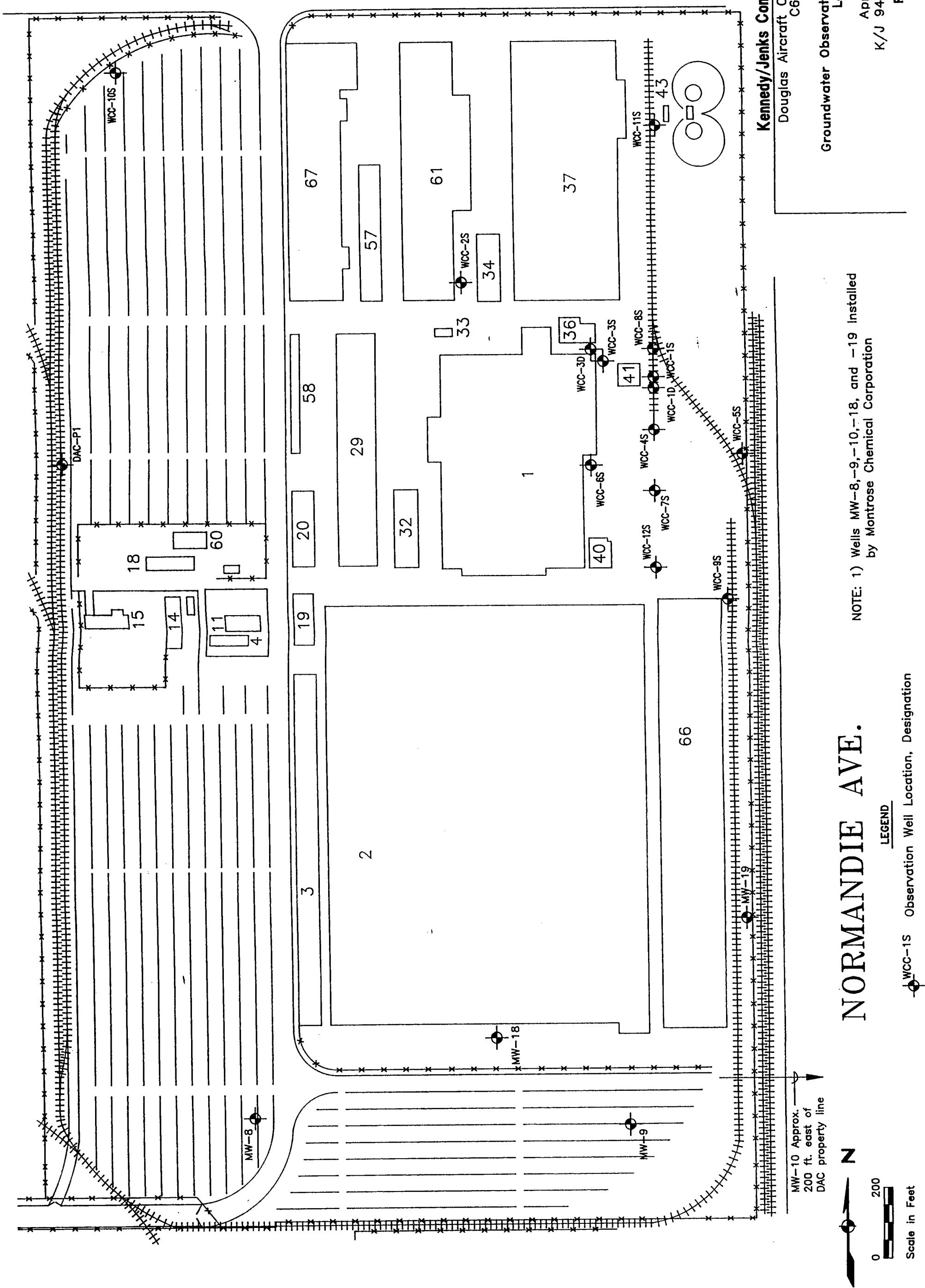
Base Map: U.S.G.S. 7.5 Minute Topographic Map,  
Torrance, California Quadrangle, 1981.

April 1996  
K/J 944016.01

**Figure 1**

Page 20 of 24

# 190 TH. ST.



April 1996  
K/J 944016.01

Figure 2

NOTE: 1) Wells MW-8,-9,-10,-18, and -19 Installed by Montrose Chemical Corporation

190 TH. ST.

0 200

Scale in Feet

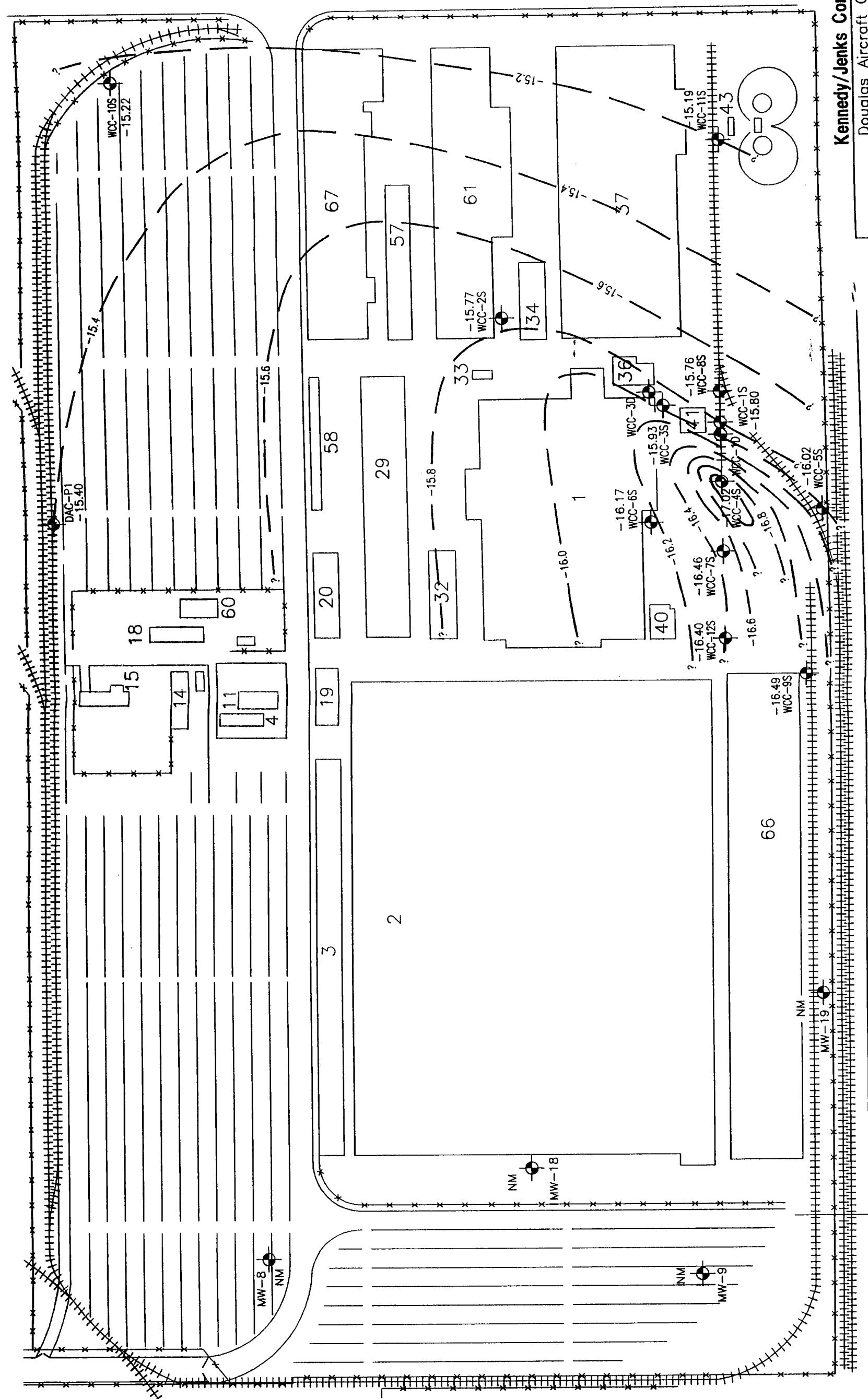
N

W

BOE-C6-0120914



# 190 TH. ST.



**Kennedy/Jenks Consultants**

Douglas Aircraft Company  
C6 Facility

Estimated Groundwater Elevation  
Contour Map, Shallow Zone March 1996

April 1996  
K/J 9440 16.01

Figure 4

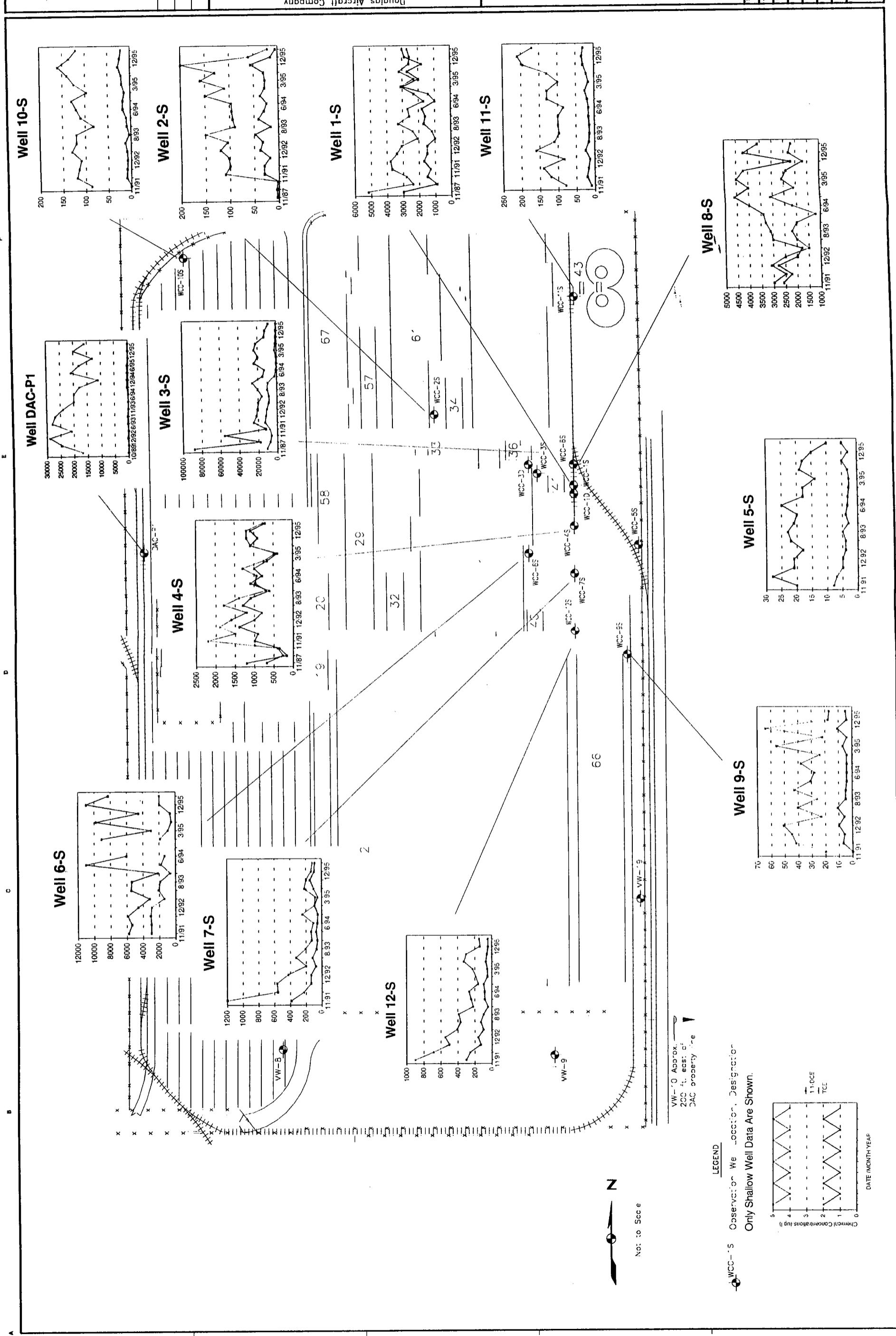
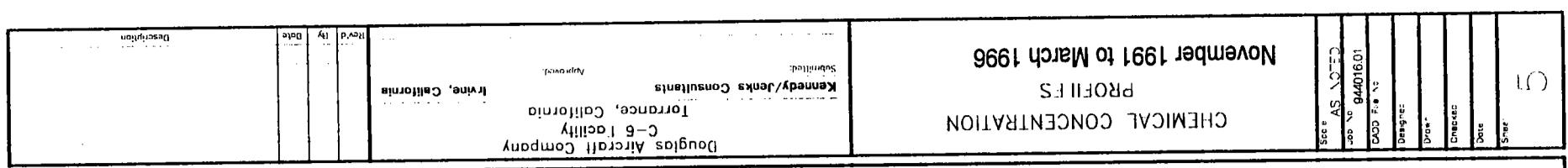
- NOTE: 1) Wells MW-8, -9, -10, -18, and -19 installed by Montrose Chemical Corporation  
2) Contour Interval = 0.2 feet  
3) Wells WCC-3D and WCC-1D are screened across the deeper zone. Therefore, their water elevations are not included.

## NORMANDIE AVE.

### LEGEND

- WCC-1S Observation Well Location, Designation  
-18.00 and groundwater elevation, feet MSL, measured 2/29/96.  
NM — Not Measured

0 200  
Scale in Feet



**APPENDIX A**

**LABORATORY DATA SHEETS**



Since 1878

Curtis & Tompkins, Ltd. General Analytical Laboratories

2495 Da Vinci, Irvine CA 92714

Phone 714-252-9700

Fax 714-252-9701

## LABORATORY REPORT

Laboratory Number: 213841

Page 1 of 13

Date Received: 03/01/96

Date Reported: 03/07/96

Issued To: KENNEDY/JENKS  
2151 MICHELSON DR.  
SUITE 100  
IRVINE, CA 92715  
ATTN: SARAH BARTLING

Project I.D.: 944016.01

Location: DAC

Report On: SIX LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By:

Roger Colvin

Jean Marie

Berkeley

Irvine



Since 1878

Curtis & Tompkins, Ltd. General Analytical Laboratories

2495 Da Vinci, Irvine CA 92714

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## LABORATORY REPORT

Laboratory Number: 213838

Page 1 of 19

Date Received: 03/01/96

Date Reported: 03/12/96

Issued To: KENNEDY/JENKS  
2151 MICHELSON DR.  
SUITE 100  
IRVINE, CA 92715  
ATTN: SARAH BARTLING

Project I.D.: 944016.01

Location: DAC

Report On: NINE LIQUID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By:

Roger Cohen

Jen Meiss

Berkeley

Irvine



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## LABORATORY REPORT

Laboratory Number: 213865

Page 1 of 19

Date Received: 03/06/96

Date Reported: 03/12/96

Issued To: KENNEDY/JENKS  
2151 MICHELSON DR.  
SUITE 100  
IRVINE, CA 92715  
ATTN: SARAH BARTLING

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Reviewed By:

Roger Cohn

Jan Mann

Berkeley

Irvine



## ABBREVIATIONS

BS/BSD - Blank Spike / Blank Spike Duplicate

BTEX - Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

ND - Not Detected at or above the defined detection limit.

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

Title 26 - Title 26 of the California Code of Regulations (CCR).

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

## UNITS

cm<sup>3</sup> - Cubic centimeter

1umhos/cm - uS/cm - Micro Siemens/centimeter

Kg - kilogram.

ppb - Parts per billion.

L - Liter.

ppm - Parts per million.

mg - Milligrams.

ug - Micrograms.

M<sup>3</sup> - Cubic meter.

ppbv - Parts per billion per unit volume

# VOLATILE ORGANICS



Client I.D.: WCC1S-14  
 Laboratory I.D.: 213865-002  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	40	a	ND	10	a - Raised detection limit due to sample interference.
Benzene	ND	20	a	ND	5	b - Result from a 1:4 dilution.
Bromobenzene	ND	20	a	ND	5	c - Result from a 1:20 dilution.
Bromochloromethane	ND	20	a	ND	5	
Bromodichloromethane	ND	20	a	ND	5	
Bromoform	ND	20	a	ND	5	
Bromomethane	ND	40	a	ND	10	
2-Butanone	ND	40	a	ND	10	
n-Butylbenzene	ND	20	a	ND	5	
sec-Butylbenzene	ND	20	a	ND	5	
tert-Butylbenzene	ND	20	a	ND	5	
Carbon disulfide	ND	20	a	ND	5	
Carbon tetrachloride	ND	20	a	ND	5	
Chlorobenzene	ND	20	a	ND	5	
Chloroethane	ND	40	a	ND	10	
2-Chloroethyl vinyl ether	ND	40	a	ND	10	
Chloroform	ND	20	a	ND	5	
Chloromethane	ND	40	a	ND	10	
2-Chlorotoluene	ND	20	a	ND	5	
4-Chlorotoluene	ND	20	a	ND	5	
Dibromochloromethane	ND	20	a	ND	5	
1,2-Dibromo-3-chloropropane	ND	20	a	ND	5	
1,2-Dibromoethane	ND	20	a	ND	5	
Dibromomethane	ND	20	a	ND	5	
1,2-Dichlorobenzene	ND	20	a	ND	5	
1,3-Dichlorobenzene	ND	20	a	ND	5	
1,4-Dichlorobenzene	ND	20	a	ND	5	
Dichlorodifluoromethane	ND	40	a	ND	10	
1,1-Dichloroethane	27	20	a,b	ND	5	
1,2-Dichloroethane	ND	20	a	ND	5	
1,1-Dichloroethene	3000	100	a,c	ND	5	
cis-1,2-Dichloroethene	35	20	a,b	ND	5	
trans-1,2-Dichloroethene	45	20	a,b	ND	5	
1,2-Dichloropropane	ND	20	a	ND	5	
1,3-Dichloropropane	ND	20	a	ND	5	
2,2-Dichloropropane	ND	20	a	ND	5	
1,1-Dichloropropene	ND	20	a	ND	5	
cis-1,3-Dichloropropene	ND	20	a	ND	5	
trans-1,3-Dichloropropene	ND	20	a	ND	5	
Ethylbenzene	ND	20	a	ND	5	
Freon 113	ND	20	a	ND	5	
Hexachlorobutadiene	ND	20	a	ND	5	
2-Hexanone	ND	40	a	ND	10	
Isopropylbenzene	ND	20	a	ND	5	
p-Isopropyltoluene	ND	20	a	ND	5	
Methylene chloride	ND	20	a	ND	5	
4-Methyl-2-pentanone	ND	40	a	ND	10	
Naphthalene	ND	20	a	ND	5	
n-Propylbenzene	ND	20	a	ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC1S-14  
 Laboratory I.D.: 213865-002  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	20	a	ND	5	a - Raised detection limit due to sample interference.
1,1,1,2-Tetrachloroethane	ND	20	a	ND	5	
1,1,2,2-Tetrachloroethane	ND	20	a	ND	5	b - Result from a 1:4 dilution.
Tetrachloroethene	ND	20	a	ND	5	
Toluene	ND	20	a	ND	5	c - Result from a 1:20 dilution.
1,2,3-Trichlorobenzene	ND	20	a	ND	5	
1,2,4-Trichlorobenzene	ND	20	a	ND	5	
1,1,1-Trichloroethane	24	20	a,b	ND	5	
1,1,2-Trichloroethane	ND	20	a	ND	5	
Trichloroethene	2700	100	a,c	ND	5	
Trichlorofluoromethane	ND	20	a	ND	5	
1,2,3-Trichloropropane	ND	20	a	ND	5	
1,2,4-Trimethylbenzene	ND	20	a	ND	5	
1,3,5-Trimethylbenzene	ND	20	a	ND	5	
Vinyl acetate	ND	40	a	ND	10	
Vinyl chloride	ND	40	a	ND	10	
m,p-Xylenes	ND	20	a	ND	5	
o-Xylene	ND	20	a	ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC7		Sample I.D.: 213865-003							
	Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits				
Toluene-d8	50	101	88-110	1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14	
Bromofluorobenzene	50	91	86-115	Benzene	25	105	80-120	104	105	76-127	1	11	
Dibromofluoromethane	50	108	76-114	Trichloroethene	25	110	80-120	104	100	71-120	4	14	
				Toluene	25	109	80-120	108	105	76-125	3	13	
				Chlorobenzene	25	106	80-120	110	111	75-130	1	13	

# VOLATILE ORGANICS



Client I.D.: WCC2S-14

Laboratory I.D.: 213838-002

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Acetone	ND	10		ND	10		
Benzene	ND	5		ND	5		
Bromobenzene	ND	5		ND	5		
Bromochloromethane	ND	5		ND	5		
Bromodichloromethane	ND	5		ND	5		
Bromoform	ND	5		ND	5		
Bromomethane	ND	10		ND	10		
2-Butanone	ND	10		ND	10		
n-Butylbenzene	ND	5		ND	5		
sec-Butylbenzene	ND	5		ND	5		
tert-Butylbenzene	ND	5		ND	5		
Carbon disulfide	ND	5		ND	5		
Carbon tetrachloride	ND	5		ND	5		
Chlorobenzene	ND	5		ND	5		
Chloroethane	ND	10		ND	10		
2-Chloroethyl vinyl ether	ND	10		ND	10		
Chloroform	ND	5		ND	5		
Chloromethane	ND	10		ND	10		
2-Chlorotoluene	ND	5		ND	5		
4-Chlorotoluene	ND	5		ND	5		
Dibromochloromethane	ND	5		ND	5		
1,2-Dibromo-3-chloropropane	ND	5		ND	5		
1,2-Dibromoethane	ND	5		ND	5		
Dibromomethane	ND	5		ND	5		
1,2-Dichlorobenzene	ND	5		ND	5		
1,3-Dichlorobenzene	ND	5		ND	5		
1,4-Dichlorobenzene	ND	5		ND	5		
Dichlorodifluoromethane	ND	10		ND	10		
1,1-Dichloroethane	ND	5		ND	5		
1,2-Dichloroethane	ND	5		ND	5		
1,1-Dichloroethene	ND	5		ND	5		
cis-1,2-Dichloroethene	ND	5		ND	5		
trans-1,2-Dichloroethene	ND	5		ND	5		
1,2-Dichloropropane	ND	5		ND	5		
1,3-Dichloropropane	ND	5		ND	5		
2,2-Dichloropropane	ND	5		ND	5		
1,1-Dichloropropene	ND	5		ND	5		
cis-1,3-Dichloropropene	ND	5		ND	5		
trans-1,3-Dichloropropene	ND	5		ND	5		
Ethylbenzene	ND	5		ND	5		
Freon 113	ND	5		ND	5		
Hexachlorobutadiene	ND	5		ND	5		
2-Hexanone	ND	10		ND	10		
Isopropylbenzene	ND	5		ND	5		
p-Isopropyltoluene	ND	5		ND	5	Date Sampled:	3/01/96
Methylene chloride	ND	5		ND	5		N/A
4-Methyl-2-pentanone	ND	10		ND	10	Date Analyzed:	3/06/96
Naphthalene	ND	5		ND	5		
n-Propylbenzene	ND	5		ND	5		

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC2S-14  
 Laboratory I.D.: 213838-002  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethylene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethylene	21	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC6		Sample I.D.: 213813-004						
	Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits			
Toluene-d8	50	99	88-110	1,1-Dichloroethylene	25	89	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	92	86-115	Benzene	25	105	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	103	76-114	Trichloroethylene	25	112	80-120	a	115	71-120	6	14
				Toluene	25	110	80-120	111	103	76-125	7	13
				Chlorobenzene	25	111	80-120	116	111	75-130	4	13

# VOLATILE ORGANICS



Client I.D.: WCC3S-14

Laboratory I.D.: 213865-004

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	100	a	ND	10	a - Raised detection limit due to sample interference.
Benzene	100	50	a,b	ND	5	b - Result from a 1:10 dilution.
Bromobenzene	ND	50	a	ND	5	c - Result from a 1:100 dilution.
Bromoform	ND	50	a	ND	5	
Bromomethane	ND	100	a	ND	10	
2-Butanone	ND	100	a	ND	10	
n-Butylbenzene	ND	50	a	ND	5	
sec-Butylbenzene	ND	50	a	ND	5	
tert-Butylbenzene	ND	50	a	ND	5	
Carbon disulfide	ND	50	a	ND	5	
Carbon tetrachloride	ND	50	a	ND	5	
Chlorobenzene	ND	50	a	ND	5	
Chloroethane	ND	100	a	ND	10	
2-Chloroethyl vinyl ether	ND	100	a	ND	10	
Chloroform	ND	50	a	ND	5	
Chloromethane	ND	100	a	ND	10	
2-Chlorotoluene	ND	50	a	ND	5	
4-Chlorotoluene	ND	50	a	ND	5	
Dibromochloromethane	ND	50	a	ND	5	
1,2-Dibromo-3-chloropropane	ND	50	a	ND	5	
1,2-Dibromoethane	ND	50	a	ND	5	
Dibromomethane	ND	50	a	ND	5	
1,2-Dichlorobenzene	ND	50	a	ND	5	
1,3-Dichlorobenzene	ND	50	a	ND	5	
1,4-Dichlorobenzene	ND	50	a	ND	5	
Dichlorodifluoromethane	ND	100	a	ND	10	
1,1-Dichloroethane	230	50	a,b	ND	5	
1,2-Dichloroethane	ND	50	a	ND	5	
1,1-Dichloroethene	8400	500	a,c	ND	5	
cis-1,2-Dichloroethene	3200	500	a,c	ND	5	
trans-1,2-Dichloroethene	280	50	a,b	ND	5	
1,2-Dichloropropane	ND	50	a	ND	5	
1,3-Dichloropropane	ND	50	a	ND	5	
2,2-Dichloropropane	ND	50	a	ND	5	
1,1-Dichloropropene	ND	50	a	ND	5	
cis-1,3-Dichloropropene	ND	50	a	ND	5	
trans-1,3-Dichloropropene	ND	50	a	ND	5	
Ethylbenzene	ND	50	a	ND	5	
Freon 113	ND	50	a	ND	5	
Hexachlorobutadiene	ND	50	a	ND	5	
2-Hexanone	ND	100	a	ND	10	
Isopropylbenzene	ND	50	a	ND	5	
p-Isopropyltoluene	ND	50	a	ND	5	Date Sampled: 3/04/96 N/A
Methylene chloride	ND	50	a	ND	5	Date Analyzed: 3/07/96 3/07/96
4-Methyl-2-pentanone	200	100	a,b	ND	10	
Naphthalene	ND	50	a	ND	5	
n-Propylbenzene	ND	50	a	ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC3S-14

Laboratory I.D.: 213865-004

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	50	a	ND	5	a - Raised detection limit due to sample interference.
1,1,1,2-Tetrachloroethane	ND	50	a	ND	5	
1,1,2,2-Tetrachloroethane	ND	50	a	ND	5	b - Result from a 1:10 dilution.
Tetrachloroethylene	ND	50	a	ND	5	
Toluene	15000	500	a,c	ND	5	c - Result from a 1:100 dilution.
1,2,3-Trichlorobenzene	ND	50	a	ND	5	
1,2,4-Trichlorobenzene	ND	50	a	ND	5	
1,1,1-Trichloroethane	1900	500	a,c	ND	5	
1,1,2-Trichloroethane	ND	50	a	ND	5	
Trichloroethylene	480	50	a,b	ND	5	
Trichlorofluoromethane	ND	50	a	ND	5	
1,2,3-Trichloropropane	ND	50	a	ND	5	
1,2,4-Trimethylbenzene	ND	50	a	ND	5	
1,3,5-Trimethylbenzene	ND	50	a	ND	5	
Vinyl acetate	ND	100	a	ND	10	
Vinyl chloride	ND	100	a	ND	10	
m,p-Xylenes	ND	50	a	ND	5	
o-Xylene	ND	50	a	ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC7		Sample I.D.: 213865-003							
				Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	101	88-110	1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14	
Bromofluorobenzene	50	93	86-115	Benzene	25	105	80-120	104	105	76-127	1	11	
Dibromofluoromethane	50	111	76-114	Trichloroethylene	25	110	80-120	104	100	71-120	4	14	
				Toluene	25	109	80-120	108	105	76-125	3	13	
				Chlorobenzene	25	106	80-120	110	111	75-130	1	13	

# VOLATILE ORGANICS



Client I.D.: WCC4S-14  
 Laboratory I.D.: 213865-001  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	a - Raised detection limit due to sample interference.
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	b - Result from a 1:10 dilution.
Bromoform	ND	5		ND	5	
Bromomethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	710	50	a,b	ND	5	
cis-1,2-Dichloroethene	6	5		ND	5	
trans-1,2-Dichloroethene	6	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC4S-14

Laboratory I.D.: 213865-001

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - Raised detection limit due to sample interference.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	b - Result from a 1:10 dilution.
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	770	50	a,b	ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC7		Sample I.D.: 213865-003							
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	100	88-110	1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14	
Bromofluorobenzene	50	91	86-115	Benzene	25	105	80-120	104	105	76-127	1	11	
Dibromofluoromethane	50	105	76-114	Trichloroethene	25	110	80-120	104	100	71-120	4	14	
				Toluene	25	109	80-120	108	105	76-125	3	13	
				Chlorobenzene	25	106	80-120	110	111	75-130	1	13	

# VOLATILE ORGANICS



Client I.D.: WCC5S-14  
 Laboratory I.D.: 213841-001  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	10	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	Sample
Isopropylbenzene	ND	5		ND	5	Method Blank
p-Isopropyltoluene	ND	5		ND	5	Date Sampled: 2/29/96 N/A
Methylene chloride	ND	5		ND	5	Date Analyzed: 3/05/96 3/05/96
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC5S-14  
 Laboratory I.D.: 213841-001  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Compound	Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10813DC5		Sample I.D.: 213813-007							
				Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14	
Bromofluorobenzene	50	92	86-115	Benzene	25	102	80-120	106	98	76-127	8	11	
Dibromofluoromethane	50	105	76-114	Trichloroethene	25	111	80-120	113	101	71-120	11	14	
				Toluene	25	102	80-120	114	104	76-125	9	13	
				Chlorobenzene	25	104	80-120	113	107	75-130	5	13	

# VOLATILE ORGANICS



Client I.D.: WCC6S-14

Laboratory I.D.: 213865-005

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	100	a	ND	10	a - Raised detection limit due to sample interference.
Benzene	56	50	a,b	ND	5	
Bromobenzene	ND	50	a	ND	5	b - Result from a 1:10 dilution.
Bromochloromethane	ND	50	a	ND	5	
Bromodichloromethane	ND	50	a	ND	5	c - Result from a 1:100 dilution.
Bromoform	ND	50	a	ND	5	
Bromomethane	ND	100	a	ND	10	
2-Butanone	340	100	a,b	ND	10	
n-Butylbenzene	ND	50	a	ND	5	
sec-Butylbenzene	ND	50	a	ND	5	
tert-Butylbenzene	ND	50	a	ND	5	
Carbon disulfide	ND	50	a	ND	5	
Carbon tetrachloride	ND	50	a	ND	5	
Chlorobenzene	ND	50	a	ND	5	
Chloroethane	ND	100	a	ND	10	
2-Chloroethyl vinyl ether	ND	100	a	ND	10	
Chloroform	ND	50	a	ND	5	
Chloromethane	ND	100	a	ND	10	
2-Chlorotoluene	ND	50	a	ND	5	
4-Chlorotoluene	ND	50	a	ND	5	
Dibromochloromethane	ND	50	a	ND	5	
1,2-Dibromo-3-chloropropane	ND	50	a	ND	5	
1,2-Dibromoethane	ND	50	a	ND	5	
Dibromomethane	ND	50	a	ND	5	
1,2-Dichlorobenzene	ND	50	a	ND	5	
1,3-Dichlorobenzene	ND	50	a	ND	5	
1,4-Dichlorobenzene	ND	50	a	ND	5	
Dichlorodifluoromethane	ND	100	a	ND	10	
1,1-Dichloroethane	93	50	a,b	ND	5	
1,2-Dichloroethane	ND	50	a	ND	5	
1,1-Dichloroethene	8300	500	a,c	ND	5	
cis-1,2-Dichloroethene	2000	50	a,b	ND	5	
trans-1,2-Dichloroethene	140	50	a,b	ND	5	
1,2-Dichloropropane	ND	50	a	ND	5	
1,3-Dichloropropane	ND	50	a	ND	5	
2,2-Dichloropropane	ND	50	a	ND	5	
1,1-Dichloropropene	ND	50	a	ND	5	
cis-1,3-Dichloropropene	ND	50	a	ND	5	
trans-1,3-Dichloropropene	ND	50	a	ND	5	
Ethylbenzene	ND	50	a	ND	5	
Freon 113	ND	50	a	ND	5	
Hexachlorobutadiene	ND	50	a	ND	5	
2-Hexanone	ND	100	a	ND	10	
Isopropylbenzene	ND	50	a	ND	5	
p-Isopropyltoluene	ND	50	a	ND	5	
Methylene chloride	ND	50	a	ND	5	
4-Methyl-2-pentanone	350	100	a,b	ND	10	
Naphthalene	ND	50	a	ND	5	
n-Propylbenzene	ND	50	a	ND	5	

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# VOLATILE ORGANICS



Client I.D.: WCC6S-14

Matrix: Liquid

Laboratory I.D.: 213865-005

Method: EPA 8260

Client: KENNEDY/JENKS

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	50	a	ND	5	a - Raised detection limit due to sample interference.
1,1,1,2-Tetrachloroethane	ND	50	a	ND	5	
1,1,2,2-Tetrachloroethane	ND	50	a	ND	5	b - Result from a 1:10 dilution.
Tetrachloroethylene	ND	50	a	ND	5	
Toluene	3900	500	a,c	ND	5	c - Result from a 1:100 dilution.
1,2,3-Trichlorobenzene	ND	50	a	ND	5	
1,2,4-Trichlorobenzene	ND	50	a	ND	5	
1,1,1-Trichloroethane	1600	50	a,b	ND	5	
1,1,2-Trichloroethane	61	50	a,b	ND	5	
Trichloroethylene	2000	50	a,b	ND	5	
Trichlorofluoromethane	ND	50	a	ND	5	
1,2,3-Trichloropropane	ND	50	a	ND	5	
1,2,4-Trimethylbenzene	ND	50	a	ND	5	
1,3,5-Trimethylbenzene	ND	50	a	ND	5	
Vinyl acetate	ND	100	a	ND	10	
Vinyl chloride	ND	100	a	ND	10	
m,p-Xylenes	ND	50	a	ND	5	
o-Xylene	ND	50	a	ND	5	

## Quality Control Data Summary

Compound	Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC7			Sample I.D.: 213865-003						
				Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	100	88-110	1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14	
Bromofluorobenzene	50	88	86-115	Benzene	25	105	80-120	104	105	76-127	1	11	
Dibromofluoromethane	50	107	76-114	Trichloroethylene	25	110	80-120	104	100	71-120	4	14	
				Toluene	25	109	80-120	108	105	76-125	3	13	
				Chlorobenzene	25	106	80-120	110	111	75-130	1	13	

# VOLATILE ORGANICS



Client I.D.: WCC7S-14  
 Laboratory I.D.: 213838-005  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	91	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

Sample	Method Blank
Date Sampled:	3/01/96
Date Analyzed:	3/06/96
	N/A



# VOLATILE ORGANICS

Client I.D.: WCC7S-14  
 Laboratory I.D.: 213838-005  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	120	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC6			Sample I.D.: 213813-004					
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	101	88-110	1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	93	86-115	Benzene	25	105	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	107	76-114	Trichloroethene	25	112	80-120	a	115	71-120	6	14
				Toluene	25	110	80-120	111	103	76-125	7	13
				Chlorobenzene	25	111	80-120	116	111	75-130	4	13

# VOLATILE ORGANICS



Client I.D.: WCC8S-14  
 Laboratory I.D.: 213838-007  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	40	b	ND	10	b - Raised detection limit due to sample interference.
Benzene	ND	20	b	ND	5	c - Result from a 1:4 dilution.
Bromobenzene	ND	20	b	ND	5	d - Result from a 1:40 dilution.
Bromochloromethane	ND	20	b	ND	5	
Bromodichloromethane	ND	20	b	ND	5	
Bromoform	ND	20	b	ND	5	
Bromomethane	ND	40	b	ND	10	
2-Butanone	ND	40	b	ND	10	
n-Butylbenzene	ND	20	b	ND	5	
sec-Butylbenzene	ND	20	b	ND	5	
tert-Butylbenzene	ND	20	b	ND	5	
Carbon disulfide	ND	20	b	ND	5	
Carbon tetrachloride	ND	20	b	ND	5	
Chlorobenzene	ND	20	b	ND	5	
Chloroethane	ND	40	b	ND	10	
2-Chloroethyl vinyl ether	ND	40	b	ND	10	
Chloroform	ND	20	b	ND	5	
Chloromethane	ND	40	b	ND	10	
2-Chlorotoluene	ND	20	b	ND	5	
4-Chlorotoluene	ND	20	b	ND	5	
Dibromochloromethane	ND	20	b	ND	5	
1,2-Dibromo-3-chloropropane	ND	20	b	ND	5	
1,2-Dibromoethane	ND	20	b	ND	5	
Dibromomethane	ND	20	b	ND	5	
1,2-Dichlorobenzene	ND	20	b	ND	5	
1,3-Dichlorobenzene	ND	20	b	ND	5	
1,4-Dichlorobenzene	ND	20	b	ND	5	
Dichlorodifluoromethane	ND	40	b	ND	10	
1,1-Dichloroethane	ND	20	b	ND	5	
1,2-Dichloroethane	ND	20	b	ND	5	
1,1-Dichloroethene	3500	200	b,d	ND	5	
cis-1,2-Dichloroethene	ND	20	b	ND	5	
trans-1,2-Dichloroethene	40	20	b,c	ND	5	
1,2-Dichloropropane	ND	20	b	ND	5	
1,3-Dichloropropane	ND	20	b	ND	5	
2,2-Dichloropropane	ND	20	b	ND	5	
1,1-Dichloropropene	ND	20	b	ND	5	
cis-1,3-Dichloropropene	ND	20	b	ND	5	
trans-1,3-Dichloropropene	ND	20	b	ND	5	
Ethylbenzene	ND	20	b	ND	5	
Freon 113	ND	20	b	ND	5	
Hexachlorobutadiene	ND	20	b	ND	5	
2-Hexanone	ND	40	b	ND	10	
Isopropylbenzene	ND	20	b	ND	5	
p-Isopropyltoluene	ND	20	b	ND	5	
Methylene chloride	ND	20	b	ND	5	
4-Methyl-2-pentanone	ND	40	b	ND	10	
Naphthalene	ND	20	b	ND	5	
n-Propylbenzene	ND	20	b	ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC8S-14  
 Laboratory I.D.: 213838-007  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	20	b	ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	20	b	ND	5	
1,1,2,2-Tetrachloroethane	ND	20	b	ND	5	
Tetrachloroethene	ND	20	b	ND	5	b - Raised detection limit due to sample interference.
Toluene	ND	20	b	ND	5	
1,2,3-Trichlorobenzene	ND	20	b	ND	5	
1,2,4-Trichlorobenzene	ND	20	b	ND	5	c - Result from a 1:4 dilution.
1,1,1-Trichloroethane	120	20	b,c	ND	5	
1,1,2-Trichloroethane	ND	20	b	ND	5	d - Result from a 1:40 dilution.
Trichloroethene	2100	200	b,d	ND	5	
Trichlorofluoromethane	ND	20	b	ND	5	
1,2,3-Trichloropropane	ND	20	b	ND	5	
1,2,4-Trimethylbenzene	ND	20	b	ND	5	
1,3,5-Trimethylbenzene	ND	20	b	ND	5	
Vinyl acetate	ND	40	b	ND	10	
Vinyl chloride	ND	40	b	ND	10	
m,p-Xylenes	ND	20	b	ND	5	
o-Xylene	ND	20	b	ND	5	

## Quality Control Data Summary

Compound	Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
	Spike Amount (ug/L)	Percent Recovery	QC Limits	Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	100	88-110	1,1-Dichloroethene	25	91	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	92	86-115	Benzene	25	105	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	108	76-114	Trichloroethene	25	110	80-120	a	115	71-120	6	14
				Toluene	25	109	80-120	111	103	76-125	7	13
				Chlorobenzene	25	106	80-120	116	111	75-130	4	13

# VOLATILE ORGANICS



Client I.D.: WCC9S-14  
 Laboratory I.D.: 213841-002  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromo-chloromethane	ND	5		ND	5	
Bromo-dichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	.5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

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Sample	Method Blank	
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

# VOLATILE ORGANICS



Client I.D.: WCC9S-14  
 Laboratory I.D.: 213841-002  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	17	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	.5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10813DC5		Sample I.D.: 213813-007							
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14	
Bromofluorobenzene	50	91	86-115	Benzene	25	102	80-120	106	98	76-127	8	11	
Dibromofluoromethane	50	107	76-114	Trichloroethene	25	111	80-120	113	101	71-120	11	14	
				Toluene	25	102	80-120	114	104	76-125	9	13	
				Chlorobenzene	25	104	80-120	113	107	75-130	5	13	

# VOLATILE ORGANICS



Client I.D.: WCC10S-14  
 Laboratory I.D.: 213838-001  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	20	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethybenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

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# VOLATILE ORGANICS



Client I.D.: WCC10S-14  
 Laboratory I.D.: 213838-001  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	120	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Compound	Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC6			Sample I.D.: 213813-004					
Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits				
1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14				
Benzene	25	105	80-120	113	107	76-127	5	11				
Trichloroethene	25	112	80-120	a	115	71-120	6	14				
Toluene	25	110	80-120	111	103	76-125	7	13				
Chlorobenzene	25	111	80-120	116	111	75-130	4	13				
Toluene-d8	50	98	88-110									
Bromofluorobenzene	50	90	86-115									
Dibromofluoromethane	50	103	76-114									

# VOLATILE ORGANICS



Client I.D.: WCC11S-14

Laboratory I.D.: 213838-003

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Acetone	ND	10		ND	10		
Benzene	ND	5		ND	5		
Bromobenzene	ND	5		ND	5		
Bromo-chloromethane	ND	5		ND	5		
Bromo-dichloromethane	ND	5		ND	5		
Bromoform	ND	5		ND	5		
Bromo-methane	ND	10		ND	10		
2-Butanone	ND	10		ND	10		
n-Butylbenzene	ND	5		ND	5		
sec-Butylbenzene	ND	5		ND	5		
tert-Butylbenzene	ND	5		ND	5		
Carbon disulfide	ND	5		ND	5		
Carbon tetrachloride	ND	5		ND	5		
Chlorobenzene	ND	5		ND	5		
Chloroethane	ND	10		ND	10		
2-Chloroethyl vinyl ether	ND	10		ND	10		
Chloroform	ND	5		ND	5		
Chloro-methane	ND	10		ND	10		
2-Chloro-toluene	ND	5		ND	5		
4-Chloro-toluene	ND	5		ND	5		
Dibromo-chloro-methane	ND	5		ND	5		
1,2-Dibromo-3-chloropropane	ND	5		ND	5		
1,2-Dibromo-ethane	ND	5		ND	5		
Dibromo-methane	ND	5		ND	5		
1,2-Dichloro-benzene	ND	5		ND	5		
1,3-Dichloro-benzene	ND	5		ND	5		
1,4-Dichloro-benzene	ND	5		ND	5		
Dichloro-difluoro-methane	ND	10		ND	10		
1,1-Dichloro-ethane	ND	5		ND	5		
1,2-Dichloro-ethane	ND	5		ND	5		
1,1-Dichloro-ethene	30	5		ND	5		
cis-1,2-Dichloro-ethene	ND	5		ND	5		
trans-1,2-Dichloro-ethene	ND	5		ND	5		
1,2-Dichloro-propane	ND	5		ND	5		
1,3-Dichloro-propane	ND	5		ND	5		
2,2-Dichloro-propane	ND	5		ND	5		
1,1-Dichloro-propene	ND	5		ND	5		
cis-1,3-Dichloro-propene	ND	5		ND	5		
trans-1,3-Dichloro-propene	ND	5		ND	5		
Ethylbenzene	ND	5		ND	5		
Freon 113	ND	5		ND	5		
Hexachloro-butadiene	ND	5		ND	5		
2-Hexanone	ND	10		ND	10		
Isopropylbenzene	ND	5		ND	5		
p-Isopropyltoluene	ND	5		ND	5		
Methylene chloride	ND	5		ND	5		
4-Methyl-2-pentanone	ND	10		ND	10		
Naphthalene	ND	5		ND	5		
n-Propylbenzene	ND	5		ND	5		

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Date Sampled:	3/01/96	Method Blank
Date Analyzed:	3/06/96	3/06/96



# VOLATILE ORGANICS

Client I.D.: WCC11S-14  
 Laboratory I.D.: 213838-003  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	170	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC6			Sample I.D.: 213813-004					
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	92	86-115	Benzene	25	105	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	108	76-114	Trichloroethene	25	112	80-120	a	115	71-120	6	14
				Toluene	25	110	80-120	111	103	76-125	7	13
				Chlorobenzene	25	111	80-120	116	111	75-130	4	13

# VOLATILE ORGANICS



Client I.D.: WCC12S-14  
 Laboratory I.D.: 213838-004  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	13	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	47	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

Sample	Method Blank	
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/06/96	3/06/96

# VOLATILE ORGANICS



Client I.D.: WCC12S-14

Matrix: Liquid

Laboratory I.D.: 213838-004

Method: EPA 8260

Client: KENNEDY/JENKS

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	150	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Compound	Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC6			Sample I.D.: 213813-004						
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	89	80-120	93	88	61-145	6	14	
Bromofluorobenzene	50	92	86-115	Benzene	25	105	80-120	113	107	76-127	5	11	
Dibromofluoromethane	50	107	76-114	Trichloroethene	25	112	80-120	a	115	71-120	6	14	
				Toluene	25	110	80-120	111	103	76-125	7	13	
				Chlorobenzene	25	111	80-120	116	111	75-130	4	13	

# VOLATILE ORGANICS



Client I.D.: DACP1-14  
 Laboratory I.D.: 213865-007  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	200	a	ND	10	a - Raised detection limit due to sample interference.
Benzene	ND	100	a	ND	5	b - Result from a 1:20 dilution.
Bromobenzene	ND	100	a	ND	5	
Bromo(chloromethane)	ND	100	a	ND	5	
Bromo(dichloromethane)	ND	100	a	ND	5	
Bromoform	ND	100	a	ND	5	
Bromomethane	ND	200	a	ND	10	
2-Butanone	ND	200	a	ND	10	
n-Butylbenzene	ND	100	a	ND	5	
sec-Butylbenzene	ND	100	a	ND	5	
tert-Butylbenzene	ND	100	a	ND	5	
Carbon disulfide	ND	100	a	ND	5	
Carbon tetrachloride	ND	100	a	ND	5	
Chlorobenzene	ND	100	a	ND	5	
Chloroethane	ND	200	a	ND	10	
2-Chloroethyl vinyl ether	ND	200	a	ND	10	
Chloroform	ND	100	a	ND	5	
Chloromethane	ND	200	a	ND	10	
2-Chlorotoluene	ND	100	a	ND	5	
4-Chlorotoluene	ND	100	a	ND	5	
Dibromo(chloromethane)	ND	100	a	ND	5	
1,2-Dibromo-3-chloropropane	ND	100	a	ND	5	
1,2-Dibromoethane	ND	100	a	ND	5	
Dibromomethane	ND	100	a	ND	5	
1,2-Dichlorobenzene	ND	100	a	ND	5	
1,3-Dichlorobenzene	ND	100	a	ND	5	
1,4-Dichlorobenzene	ND	100	a	ND	5	
Dichlorodifluoromethane	ND	200	a	ND	10	
1,1-Dichloroethane	ND	100	a	ND	5	
1,2-Dichloroethane	ND	100	a	ND	5	
1,1-Dichloroethene	100	100	a,b	ND	5	
cis-1,2-Dichloroethene	100	100	a,b	ND	5	
trans-1,2-Dichloroethene	ND	100	a	ND	5	
1,2-Dichloropropane	ND	100	a	ND	5	
1,3-Dichloropropane	ND	100	a	ND	5	
2,2-Dichloropropane	ND	100	a	ND	5	
1,1-Dichloropropene	ND	100	a	ND	5	
cis-1,3-Dichloropropene	ND	100	a	ND	5	
trans-1,3-Dichloropropene	ND	100	a	ND	5	
Ethylbenzene	ND	100	a	ND	5	
Freon 113	ND	100	a	ND	5	
Hexachlorobutadiene	ND	100	a	ND	5	
2-Hexanone	ND	200	a	ND	10	
Isopropylbenzene	ND	100	a	ND	5	
p-Isopropyltoluene	ND	100	a	ND	5	Date Sampled: 3/04/96 N/A
Methylene chloride	ND	100	a	ND	5	Date Analyzed: 3/07/96 3/07/96
4-Methyl-2-pentanone	ND	200	a	ND	10	
Naphthalene	ND	100	a	ND	5	
n-Propylbenzene	ND	100	a	ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: DACP1-14  
 Laboratory I.D.: 213865-007  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	100	a	ND	5	a - Raised detection limit due to sample interference.
1,1,1,2-Tetrachloroethane	ND	100	a	ND	5	
1,1,2,2-Tetrachloroethane	ND	100	a	ND	5	b - Result from a 1:20 dilution.
Tetrachloroethene	ND	100	a	ND	5	
Toluene	260	100	a,b	ND	5	c - Result from a 1:100 dilution.
1,2,3-Trichlorobenzene	ND	100	a	ND	5	
1,2,4-Trichlorobenzene	ND	100	a	ND	5	
1,1,1-Trichloroethane	ND	100	a	ND	5	
1,1,2-Trichloroethane	ND	100	a	ND	5	
Trichloroethene	15000	500	a,c	ND	5	
Trichlorofluoromethane	ND	100	a	ND	5	
1,2,3-Trichloropropane	ND	100	a	ND	5	
1,2,4-Trimethylbenzene	ND	100	a	ND	5	
1,3,5-Trimethylbenzene	ND	100	a	ND	5	
Vinyl acetate	ND	200	a	ND	10	
Vinyl chloride	ND	200	a	ND	10	
m,p-Xylenes	ND	100	a	ND	5	
o-Xylene	ND	100	a	ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC7		Sample I.D.: 213865-003						
				Compounds	Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	102	88-110	1,1-Dichloroethene	25	91	80-120	88	90	61-145	2	14
Bromofluorobenzene	50	95	86-115	Benzene	25	105	80-120	104	105	76-127	1	11
Dibromofluoromethane	50	108	76-114	Trichloroethene	25	110	80-120	104	100	71-120	4	14
				Toluene	25	109	80-120	108	105	76-125	3	13
				Chlorobenzene	25	106	80-120	110	111	75-130	1	13

# VOLATILE ORGANICS



Client I.D.: WCC1D-14

Laboratory I.D.: 213841-003

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC1D-14  
 Laboratory I.D.: 213841-003  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10813DC5		Sample I.D.: 213813-007							
				Compounds	Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14	
Bromoform	50	92	86-115	Benzene	25	102	80-120	106	98	76-127	8	11	
Dibromofluoromethane	50	102	76-114	Trichloroethene	25	111	80-120	113	101	71-120	11	14	
				Toluene	25	102	80-120	114	104	76-125	9	13	
				Chlorobenzene	25	104	80-120	113	107	75-130	5	13	

# VOLATILE ORGANICS



Client I.D.: WCC3D-14  
 Laboratory I.D.: 213865-003  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Acetone	ND	10		ND	10		
Benzene	ND	5		ND	5		
Bromobenzene	ND	5		ND	5		
Bromo(chloromethane	ND	5		ND	5		
Bromodichloromethane	ND	5		ND	5		
Bromoform	ND	5		ND	5		
Bromomethane	ND	10		ND	10		
2-Butanone	ND	10		ND	10		
n-Butylbenzene	ND	5		ND	5		
sec-Butylbenzene	ND	5		ND	5		
tert-Butylbenzene	ND	5		ND	5		
Carbon disulfide	ND	5		ND	5		
Carbon tetrachloride	ND	5		ND	5		
Chlorobenzene	ND	5		ND	5		
Chloroethane	ND	10		ND	10		
2-Chloroethyl vinyl ether	ND	10		ND	10		
Chloroform	ND	5		ND	5		
Chloromethane	ND	10		ND	10		
2-Chlorotoluene	ND	5		ND	5		
4-Chlorotoluene	ND	5		ND	5		
Dibromochloromethane	ND	5		ND	5		
1,2-Dibromo-3-chloropropane	ND	5		ND	5		
1,2-Dibromoethane	ND	5		ND	5		
Dibromomethane	ND	5		ND	5		
1,2-Dichlorobenzene	ND	5		ND	5		
1,3-Dichlorobenzene	ND	5		ND	5		
1,4-Dichlorobenzene	ND	5		ND	5		
Dichlorodifluoromethane	ND	10		ND	10		
1,1-Dichloroethane	ND	5		ND	5		
1,2-Dichloroethane	ND	5		ND	5		
1,1-Dichloroethene	53	5		ND	5		
cis-1,2-Dichloroethene	ND	5		ND	5		
trans-1,2-Dichloroethene	ND	5		ND	5		
1,2-Dichloropropane	ND	5		ND	5		
1,3-Dichloropropane	ND	5		ND	5		
2,2-Dichloropropane	ND	5		ND	5		
1,1-Dichloropropene	ND	5		ND	5		
cis-1,3-Dichloropropene	ND	5		ND	5		
trans-1,3-Dichloropropene	ND	5		ND	5		
Ethylbenzene	ND	5		ND	5		
Freon 113	ND	5		ND	5		
Hexachlorobutadiene	ND	5		ND	5		
2-Hexanone	ND	10		ND	10		
Isopropylbenzene	ND	5		ND	5		
p-Isopropyltoluene	ND	5		ND	5		
Methylene chloride	ND	5		ND	5		
4-Methyl-2-pentanone	ND	10		ND	10		
Naphthalene	ND	5		ND	5		
n-Propylbenzene	ND	5		ND	5		

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: WCC3D-14  
 Laboratory I.D.: 213865-003  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	6	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	40	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	23	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC6		Sample I.D.: 213865-003							
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup	QC	RPD	QC Limits	
Toluene-d8	50	97	88-110	1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14	
Bromofluorobenzene	50	90	86-115	Benzene	25	105	80-120	104	105	76-127	1	11	
Dibromofluoromethane	50	108	76-114	Trichloroethene	25	112	80-120	104	100	71-120	4	14	
				Toluene	25	110	80-120	108	105	76-125	3	13	
				Chlorobenzene	25	111	80-120	110	111	75-130	1	13	

**APPENDIX B**

**LABORATORY/FIELD QUALITY CONTROL  
DATA SHEETS**



# VOLATILE ORGANICS

Client I.D.: DW-022996  
 Laboratory I.D.: 213841-004  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	.5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	.5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	.5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	.5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

# VOLATILE ORGANICS



Client I.D.: DW-022996

Laboratory I.D.: 213841-004

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10813DC5		Sample I.D.: 213813-007						
				Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	97	88-110	1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14
Bromofluorobenzene	50	90	86-115	Benzene	25	102	80-120	106	98	76-127	8	11
Dibromofluoromethane	50	104	76-114	Trichloroethene	25	111	80-120	113	101	71-120	11	14
				Toluene	25	102	80-120	114	104	76-125	9	13
				Chlorobenzene	25	104	80-120	113	107	75-130	5	13



# VOLATILE ORGANICS

Client I.D.: EB-022996  
 Laboratory I.D.: 213841-005  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	10	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	5	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	.5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	5	
Chloroform	ND	5		ND	10	
Chloromethane	ND	10		ND	5	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	.5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

	Sample	Method Blank
Date Sampled:	2/29/96	N/A
Date Analyzed:	3/05/96	3/05/96

# VOLATILE ORGANICS



Client I.D.: EB-022996  
 Laboratory I.D.: 213841-005  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10813DC5		Sample I.D.: 213813-007							
	Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits				
Toluene-d8	50	100	88-110	1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14	
Bromofluorobenzene	50	94	86-115	Benzene	25	102	80-120	106	98	76-127	8	11	
Dibromofluoromethane	50	102	76-114	Trichloroethene	25	111	80-120	113	101	71-120	11	14	
				Toluene	25	102	80-120	114	104	76-125	9	13	
				Chlorobenzene	25	104	80-120	113	107	75-130	5	13	



# VOLATILE ORGANICS

Client I.D.: TRIP BLANK  
 Laboratory I.D.: 213841-006  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	.5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	.5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	.5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	.5		ND	5	
2-Hexanone	ND	10		ND	10	Sample
Isopropylbenzene	ND	5		ND	5	Method Blank
p-Isopropyltoluene	ND	5		ND	5	Date Sampled: 2/29/96
Methylene chloride	ND	5		ND	5	N/A
4-Methyl-2-pentanone	ND	10		ND	10	Date Analyzed: 3/05/96
Naphthalene	ND	5		ND	5	3/05/96
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: TRIP BLANK  
 Laboratory I.D.: 213841-006  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data									
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10813DC5		Sample I.D.: 213813-007							
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits	
Toluene-d8	50	98	88-110	1,1-Dichloroethene	25	83	80-120	95	85	61-145	11	14	
Bromofluorobenzene	50	92	86-115	Benzene	25	102	80-120	106	98	76-127	8	11	
Dibromofluoromethane	50	104	76-114	Trichloroethene	25	111	80-120	113	101	71-120	11	14	
				Toluene	25	102	80-120	114	104	76-125	9	13	
				Chlorobenzene	25	104	80-120	113	107	75-130	5	13	

# VOLATILE ORGANICS



Client I.D.: DW-030196  
 Laboratory I.D.: 213838-008  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	40	b	ND	10	b - Raised detection limit due to sample interference.
Benzene	ND	20	b	ND	5	c - Result from a 1:4 dilution.
Bromobenzene	ND	20	b	ND	5	d - Result from a 1:20 dilution.
Bromoform	ND	20	b	ND	5	
Bromomethane	ND	40	b	ND	10	
2-Butanone	ND	40	b	ND	10	
n-Butylbenzene	ND	20	b	ND	5	
sec-Butylbenzene	ND	20	b	ND	5	
tert-Butylbenzene	ND	20	b	ND	5	
Carbon disulfide	ND	20	b	ND	5	
Carbon tetrachloride	ND	20	b	ND	5	
Chlorobenzene	ND	20	b	ND	5	
Chloroethane	ND	40	b	ND	10	
2-Chloroethyl vinyl ether	ND	40	b	ND	10	
Chloroform	ND	20	b	ND	5	
Chloromethane	ND	40	b	ND	10	
2-Chlorotoluene	ND	20	b	ND	5	
4-Chlorotoluene	ND	20	b	ND	5	
Dibromochloromethane	ND	20	b	ND	5	
1,2-Dibromo-3-chloropropane	ND	20	b	ND	5	
1,2-Dibromoethane	ND	20	b	ND	5	
Dibromomethane	ND	20	b	ND	5	
1,2-Dichlorobenzene	ND	20	b	ND	5	
1,3-Dichlorobenzene	ND	20	b	ND	5	
1,4-Dichlorobenzene	ND	20	b	ND	5	
Dichlorodifluoromethane	ND	40	b	ND	10	
1,1-Dichloroethane	ND	20	b	ND	5	
1,2-Dichloroethane	ND	20	b	ND	5	
1,1-Dichloroethene	3600	100	b,d	ND	5	
cis-1,2-Dichloroethene	ND	20	b	ND	5	
trans-1,2-Dichloroethene	41	20	b,c	ND	5	
1,2-Dichloropropane	ND	20	b	ND	5	
1,3-Dichloropropane	ND	20	b	ND	5	
2,2-Dichloropropane	ND	20	b	ND	5	
1,1-Dichloropropene	ND	20	b	ND	5	
cis-1,3-Dichloropropene	ND	20	b	ND	5	
trans-1,3-Dichloropropene	ND	20	b	ND	5	
Ethylbenzene	ND	20	b	ND	5	
Freon 113	ND	20	b	ND	5	
Hexachlorobutadiene	ND	20	b	ND	5	
2-Hexanone	ND	40	b	ND	10	
Isopropylbenzene	ND	20	b	ND	5	
p-Isopropyltoluene	ND	20	b	ND	5	Date Sampled: 3/01/96 N/A
Methylene chloride	ND	20	b	ND	5	Date Analyzed: 3/07/96 3/07/96
4-Methyl-2-pentanone	ND	40	b	ND	10	
Naphthalene	ND	20	b	ND	5	
n-Propylbenzene	ND	20	b	ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: DW-030196  
 Laboratory I.D.: 213838-008  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	20	b	ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	20	b	ND	5	
1,1,2,2-Tetrachloroethane	ND	20	b	ND	5	
Tetrachloroethylene	ND	20	b	ND	5	
Toluene	ND	20	b	ND	5	b - Raised detection limit due to sample interference.
1,2,3-Trichlorobenzene	ND	20	b	ND	5	
1,2,4-Trichlorobenzene	ND	20	b	ND	5	c - Result from a 1:4 dilution.
1,1,1-Trichloroethane	120	20	b,c	ND	5	
1,1,2-Trichloroethane	ND	20	b	ND	5	d - Result from a 1:20 dilution.
Trichloroethylene	2200	100	b,d	ND	5	
Trichlorofluoromethane	ND	20	b	ND	5	
1,2,3-Trichloropropane	ND	20	b	ND	5	
1,2,4-Trimethylbenzene	ND	20	b	ND	5	
1,3,5-Trimethylbenzene	ND	20	b	ND	5	
Vinyl acetate	ND	40	b	ND	10	
Vinyl chloride	ND	40	b	ND	10	
m,p-Xylenes	ND	20	b	ND	5	
o-Xylene	ND	20	b	ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC7			Sample I.D.: 213813-004					
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	98	88-110	1,1-Dichloroethene	25	91	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	92	86-115	Benzene	25	105	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	107	76-114	Trichloroethylene	25	110	80-120	a	115	71-120	6	14
				Toluene	25	109	80-120	111	103	76-125	7	13
				Chlorobenzene	25	106	80-120	116	111	75-130	4	13



# VOLATILE ORGANICS

Client I.D.: TRAVEL BLANK  
 Laboratory I.D.: 213838-009  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromochloromethane	ND	5		ND	5	
Bromodichloromethane	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/05/96	3/05/96

# VOLATILE ORGANICS



Client I.D.: TRAVEL BLANK  
 Laboratory I.D.: 213838-009  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC5		Sample I.D.: 213813-004						
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	96	88-110	1,1-Dichloroethene	25	83	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	90	86-115	Benzene	25	102	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	104	76-114	Trichloroethene	25	111	80-120	a	115	71-120	6	14
				Toluene	25	102	80-120	111	103	76-125	7	13
				Chlorobenzene	25	104	80-120	116	111	75-130	4	13

# VOLATILE ORGANICS



Client I.D.: EB-030196  
 Laboratory I.D.: 213838-006  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	10	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

	Sample	Method Blank
Date Sampled:	3/01/96	N/A
Date Analyzed:	3/05/96	3/05/96

# VOLATILE ORGANICS



Client I.D.: EB-030196  
 Laboratory I.D.: 213838-006  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	a - MS recovery out of control due to confirmed matrix effect. LCS, MSD and RPD are within acceptance limits.
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Compound	Surrogate Recovery Data			Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10814DC5			Sample I.D.: 213813-004					
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup	QC Limits	RPD	QC Limits
Toluene-d8	50	98	88-110	1,1-Dichloroethene	25	83	80-120	93	88	61-145	6	14
Bromofluorobenzene	50	91	86-115	Benzene	25	102	80-120	113	107	76-127	5	11
Dibromofluoromethane	50	105	76-114	Trichloroethene	25	111	80-120	a	115	71-120	6	14
				Toluene	25	102	80-120	111	103	76-125	7	13
				Chlorobenzene	25	104	80-120	116	111	75-130	4	13

# VOLATILE ORGANICS



Client I.D.: EB-030496

Laboratory I.D.: 213865-006

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes	
Acetone	ND	10		ND	10		
Benzene	ND	5		ND	5		
Bromobenzene	ND	5		ND	5		
Bromoform	ND	5		ND	5		
Bromomethane	ND	10		ND	10		
2-Butanone	ND	10		ND	10		
n-Butylbenzene	ND	5		ND	5		
sec-Butylbenzene	ND	5		ND	5		
tert-Butylbenzene	ND	5		ND	5		
Carbon disulfide	ND	5		ND	5		
Carbon tetrachloride	ND	5		ND	5		
Chlorobenzene	ND	5		ND	5		
Chloroethane	ND	10		ND	10		
2-Chloroethyl vinyl ether	ND	10		ND	10		
Chloroform	ND	5		ND	5		
Chloromethane	ND	10		ND	10		
2-Chlorotoluene	ND	5		ND	5		
4-Chlorotoluene	ND	5		ND	5		
Dibromochloromethane	ND	5		ND	5		
1,2-Dibromo-3-chloropropane	ND	5		ND	5		
1,2-Dibromoethane	ND	5		ND	5		
Dibromomethane	ND	5		ND	5		
1,2-Dichlorobenzene	ND	5		ND	5		
1,3-Dichlorobenzene	ND	5		ND	5		
1,4-Dichlorobenzene	ND	5		ND	5		
Dichlorodifluoromethane	ND	10		ND	10		
1,1-Dichloroethane	ND	5		ND	5		
1,2-Dichloroethane	ND	5		ND	5		
1,1-Dichloroethene	ND	5		ND	5		
cis-1,2-Dichloroethene	ND	5		ND	5		
trans-1,2-Dichloroethene	ND	5		ND	5		
1,2-Dichloropropane	ND	5		ND	5		
1,3-Dichloropropane	ND	5		ND	5		
2,2-Dichloropropane	ND	5		ND	5		
1,1-Dichloropropene	ND	5		ND	5		
cis-1,3-Dichloropropene	ND	5		ND	5		
trans-1,3-Dichloropropene	ND	5		ND	5		
Ethylbenzene	ND	5		ND	5		
Freon 113	ND	5		ND	5		
Hexachlorobutadiene	ND	5		ND	5		
2-Hexanone	ND	10		ND	10	Sample	Method Blank
Isopropylbenzene	ND	5		ND	5	Date Sampled:	3/04/96 N/A
p-Isopropyltoluene	ND	5		ND	5	Date Analyzed:	3/06/96 3/06/96
Methylene chloride	ND	5		ND	5		
4-Methyl-2-pentanone	ND	10		ND	10		
Naphthalene	ND	5		ND	5		
n-Propylbenzene	ND	5		ND	5		

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: EB-030496

Matrix: Liquid

Laboratory I.D.: 213865-006

Method: EPA 8260

Client: KENNEDY/JENKS

Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC6		Sample I.D.: 213865-003						
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Bromofluorobenzene	50	91	86-115	Benzene	25	105	80-120	104	105	76-127	1	11
Dibromofluoromethane	50	106	76-114	Trichloroethene	25	112	80-120	104	100	71-120	4	14
				Toluene	25	110	80-120	108	105	76-125	3	13
				Chlorobenzene	25	111	80-120	110	111	75-130	1	13



# VOLATILE ORGANICS

Client I.D.: DW-0304969

Laboratory I.D.: 213865-008

Client: KENNEDY/JENKS

Matrix: Liquid

Method: EPA 8260

Extraction: EPA 5030 Purge &amp; Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	200	a	ND	10	a - Raised detection limit due to sample interference.
Benzene	ND	100	a	ND	5	b - Result from a 1:20 dilution.
Bromobenzene	ND	100	a	ND	5	
Bromoform	ND	100	a	ND	5	
Bromomethane	ND	200	a	ND	10	
2-Butanone	ND	200	a	ND	10	
n-Butylbenzene	ND	100	a	ND	5	
sec-Butylbenzene	ND	100	a	ND	5	
tert-Butylbenzene	ND	100	a	ND	5	
Carbon disulfide	ND	100	a	ND	5	
Carbon tetrachloride	ND	100	a	ND	5	
Chlorobenzene	ND	100	a	ND	5	
Chloroethane	ND	200	a	ND	10	
2-Chloroethyl vinyl ether	ND	200	a	ND	10	
Chloroform	ND	100	a	ND	5	
Chloromethane	ND	200	a	ND	10	
2-Chlorotoluene	ND	100	a	ND	5	
4-Chlorotoluene	ND	100	a	ND	5	
Dibromochloromethane	ND	100	a	ND	5	
1,2-Dibromo-3-chloropropane	ND	100	a	ND	5	
1,2-Dibromoethane	ND	100	a	ND	5	
Dibromomethane	ND	100	a	ND	5	
1,2-Dichlorobenzene	ND	100	a	ND	5	
1,3-Dichlorobenzene	ND	100	a	ND	5	
1,4-Dichlorobenzene	ND	100	a	ND	5	
Dichlorodifluoromethane	ND	200	a	ND	10	
1,1-Dichloroethane	ND	100	a	ND	5	
1,2-Dichloroethane	ND	100	a	ND	5	
1,1-Dichloroethene	100	100	a,b	ND	5	
cis-1,2-Dichloroethene	100	100	a,b	ND	5	
trans-1,2-Dichloroethene	ND	100	a	ND	5	
1,2-Dichloropropane	ND	100	a	ND	5	
1,3-Dichloropropane	ND	100	a	ND	5	
2,2-Dichloropropane	ND	100	a	ND	5	
1,1-Dichloropropene	ND	100	a	ND	5	
cis-1,3-Dichloropropene	ND	100	a	ND	5	
trans-1,3-Dichloropropene	ND	100	a	ND	5	
Ethylbenzene	ND	100	a	ND	5	
Freon 113	ND	100	a	ND	5	
Hexachlorobutadiene	ND	100	a	ND	5	
2-Hexanone	ND	200	a	ND	10	
Isopropylbenzene	ND	100	a	ND	5	
p-Isopropyltoluene	ND	100	a	ND	5	
Methylene chloride	ND	100	a	ND	5	
4-Methyl-2-pentanone	ND	200	a	ND	10	
Naphthalene	ND	100	a	ND	5	
n-Propylbenzene	ND	100	a	ND	5	

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# VOLATILE ORGANICS



Client I.D.: DW-0304969

Matrix: Liquid

Laboratory I.D.: 213865-008

Method: EPA 8260

Client: KENNEDY/JENKS

Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	100	a	ND	5	a - Raised detection limit due to sample interference.
1,1,1,2-Tetrachloroethane	ND	100	a	ND	5	b - Result from a 1:20 dilution.
1,1,2,2-Tetrachloroethane	ND	100	a	ND	5	c - Result from a 1:100 dilution.
Tetrachloroethene	ND	100	a	ND	5	
Toluene	250	100	a,b	ND	5	
1,2,3-Trichlorobenzene	ND	100	a	ND	5	
1,2,4-Trichlorobenzene	ND	100	a	ND	5	
1,1,1-Trichloroethane	ND	100	a	ND	5	
1,1,2-Trichloroethane	ND	100	a	ND	5	
Trichloroethene	16000	500	a,c	ND	5	
Trichlorofluoromethane	ND	100	a	ND	5	
1,2,3-Trichloropropane	ND	100	a	ND	5	
1,2,4-Trimethylbenzene	ND	100	a	ND	5	
1,3,5-Trimethylbenzene	ND	100	a	ND	5	
Vinyl acetate	ND	200	a	ND	10	
Vinyl chloride	ND	200	a	ND	10	
m,p-Xylenes	ND	100	a	ND	5	
o-Xylene	ND	100	a	ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC6		Sample I.D.: 213865-003						
				Compounds	Spike Amt. (ug/L)	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	100	88-110	1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Bromofluorobenzene	50	89	86-115	Benzene	25	105	80-120	104	105	76-127	1	11
Dibromofluoromethane	50	108	76-114	Trichloroethene	25	112	80-120	104	100	71-120	4	14
				Toluene	25	110	80-120	108	105	76-125	3	13
				Chlorobenzene	25	111	80-120	110	111	75-130	1	13

# VOLATILE ORGANICS



Client I.D.: TRAVEL BLANK  
 Laboratory I.D.: 213865-009  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Acetone	ND	10		ND	10	
Benzene	ND	5		ND	5	
Bromobenzene	ND	5		ND	5	
Bromoform	ND	5		ND	5	
Bromomethane	ND	10		ND	10	
2-Butanone	ND	10		ND	10	
n-Butylbenzene	ND	5		ND	5	
sec-Butylbenzene	ND	5		ND	5	
tert-Butylbenzene	ND	5		ND	5	
Carbon disulfide	ND	5		ND	5	
Carbon tetrachloride	ND	5		ND	5	
Chlorobenzene	ND	5		ND	5	
Chloroethane	ND	10		ND	10	
2-Chloroethyl vinyl ether	ND	10		ND	10	
Chloroform	ND	5		ND	5	
Chloromethane	ND	10		ND	10	
2-Chlorotoluene	ND	5		ND	5	
4-Chlorotoluene	ND	5		ND	5	
Dibromochloromethane	ND	5		ND	5	
1,2-Dibromo-3-chloropropane	ND	5		ND	5	
1,2-Dibromoethane	ND	5		ND	5	
Dibromomethane	ND	5		ND	5	
1,2-Dichlorobenzene	ND	5		ND	5	
1,3-Dichlorobenzene	ND	5		ND	5	
1,4-Dichlorobenzene	ND	5		ND	5	
Dichlorodifluoromethane	ND	10		ND	10	
1,1-Dichloroethane	ND	5		ND	5	
1,2-Dichloroethane	ND	5		ND	5	
1,1-Dichloroethene	ND	5		ND	5	
cis-1,2-Dichloroethene	ND	5		ND	5	
trans-1,2-Dichloroethene	ND	5		ND	5	
1,2-Dichloropropane	ND	5		ND	5	
1,3-Dichloropropane	ND	5		ND	5	
2,2-Dichloropropane	ND	5		ND	5	
1,1-Dichloropropene	ND	5		ND	5	
cis-1,3-Dichloropropene	ND	5		ND	5	
trans-1,3-Dichloropropene	ND	5		ND	5	
Ethylbenzene	ND	5		ND	5	
Freon 113	ND	5		ND	5	
Hexachlorobutadiene	ND	5		ND	5	
2-Hexanone	ND	10		ND	10	
Isopropylbenzene	ND	5		ND	5	
p-Isopropyltoluene	ND	5		ND	5	
Methylene chloride	ND	5		ND	5	
4-Methyl-2-pentanone	ND	10		ND	10	
Naphthalene	ND	5		ND	5	
n-Propylbenzene	ND	5		ND	5	

(continued on next page)

# VOLATILE ORGANICS



Client I.D.: TRAVEL BLANK  
 Laboratory I.D.: 213865-009  
 Client: KENNEDY/JENKS

Matrix: Liquid  
 Method: EPA 8260  
 Extraction: EPA 5030 Purge & Trap

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(continued from previous page)

Compound	Result (ug/L)	Detection Limit	Analytical Notes	Method Blank	Detection Limit	Analytical Notes
Styrene	ND	5		ND	5	
1,1,1,2-Tetrachloroethane	ND	5		ND	5	
1,1,2,2-Tetrachloroethane	ND	5		ND	5	
Tetrachloroethene	ND	5		ND	5	
Toluene	ND	5		ND	5	
1,2,3-Trichlorobenzene	ND	5		ND	5	
1,2,4-Trichlorobenzene	ND	5		ND	5	
1,1,1-Trichloroethane	ND	5		ND	5	
1,1,2-Trichloroethane	ND	5		ND	5	
Trichloroethene	ND	5		ND	5	
Trichlorofluoromethane	ND	5		ND	5	
1,2,3-Trichloropropane	ND	5		ND	5	
1,2,4-Trimethylbenzene	ND	5		ND	5	
1,3,5-Trimethylbenzene	ND	5		ND	5	
Vinyl acetate	ND	10		ND	10	
Vinyl chloride	ND	10		ND	10	
m,p-Xylenes	ND	5		ND	5	
o-Xylene	ND	5		ND	5	

## Quality Control Data Summary

Surrogate Recovery Data				Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data								
Compound	Spike Amount (ug/L)	Percent Recovery	QC Limits	Batch I.D.: 10872DC6		Sample I.D.: 213865-003						
				Compounds	Spike Amt.	LCS %Rec.	QC Limits	Spike %Rec.	Spk Dup %Rec.	QC Limits	RPD	QC Limits
Toluene-d8	50	99	88-110	1,1-Dichloroethene	25	89	80-120	88	90	61-145	2	14
Bromofluorobenzene	50	90	86-115	Benzene	25	105	80-120	104	105	76-127	1	11
Dibromofluoromethane	50	103	76-114	Trichloroethene	25	112	80-120	104	100	71-120	4	14
				Toluene	25	110	80-120	108	105	76-125	3	13
				Chlorobenzene	25	111	80-120	110	111	75-130	1	13

**APPENDIX C**  
**GROUNDWATER PURGE AND SAMPLE FORMS**

## WATER LEVEL DATA SHEET

Job No. 944016.01

Facility DAC

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-1S</u>						
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>						
STATIC WATER LEVEL (FT): <u>66.50</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>						
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>						
TIME START PURGE: <u>1113</u>	PURGE DEPTH (FT) <u>82'</u>						
TIME END PURGE: <u>1125</u>							
TIME SAMPLED: <u>1130</u>							
COMMENTS: <u>Slowed flow rate to approx. 500 ml/min for sample.</u>							
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = \text{VOL}$ CASING VOLUME (GAL)
				<u>2</u>	<u>4</u>	<u>6</u>	
<u>83.40</u>	<u>66.50</u>	<u>16.90</u>		<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>2.70</u>
TIME	<u>1115</u>	<u>1121</u>	<u>1125</u>				
VOLUME PURGED (GAL)	<u>2gal.</u>	<u>6gal.</u>	<u>8gal.</u>				
PURGE RATE (GPM)	<u>.5gpm</u>	<u>.5gpm</u>	<u>.5gpm</u>				
TEMPERATURE (°C)	<u>67.9</u>	<u>70.2</u>	<u>71.0</u>				
pH	<u>7.35</u>	<u>7.24</u>	<u>7.27</u>				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>1411.</u>	<u>1609.</u>	<u>1658</u>				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Brown, Silty water</u>	<u>Semi-clear lightly turbid</u>	<u>Clear</u>				
ODOR	<u>No</u>	<u>No</u>	<u>No</u>				
DEPTH OF PURGE INTAKE (FT)	<u>82'</u>	<u>82'</u>	<u>82'</u>				
DEPTH TO WATER DURING PURGE (FT)	<u>69.35</u>	<u>69.10</u>	<u>69.10</u>				
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consult

PROJECT NAME: DAR

WELL NUMBER: WCC-15

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1130 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 82'

SAMPLING EQUIPMENT: Red - Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC1514	4	VOA's	HCl	—	160 mL	—	Clear	Yes	8240/8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 5 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled per well # + date.

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Rainy

TEMPERATURE (SPECIFY °C OR °F): 55°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Banting  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-25</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>66.35</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>936</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>952</u>	
TIME SAMPLED: <u>955</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 43 \text{ gal.}$ CASING VOLUME (GAL)
						2	4	6	
						0.16	0.64	1.44	
	<u>456.90</u>	<u>66.35</u>	<u>=</u>	<u>22.55</u>					<u>1443</u>

TIME	938	941	946	948	952		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	3gpm	3gpm	3gpm	3gpm	3gpm		
TEMPERATURE (°C)	70.4	71.3	71.2	71.5	70.9		
pH	8.19	7.78	7.71	7.65	7.66.		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	677.	646.	609.	574.	563.		
DISSOLVED OXYGEN (mg/L)							
eH(MV) Pt-AgCl ref.							
TURBIDITY/COLOR	J. lightly turbid	clear	clear	clear	clear		
ODOR	no	no	no	no	no		
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	67.50	67.60	67.65	67.70	67.70		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consult

PROJECT NAME: DACWELL NUMBER: WCC-2SPROJECT NUMBER: 944016.01PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 955

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 77SAMPLING EQUIPMENT: Sedi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC2S-14	4	VOA	HCl	NO	160ml	—	Clear	YES	8240 8260	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal.

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: On site drum storageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled with date + well #.

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

## GENERAL:

WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 65°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NOcc: Project Manager: Sarah Bartling

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-3S</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>67.12</u>	MEASURING POINT DESCRIPTION: <u>TOP OF casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1424</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>1438</u>	
TIME SAMPLED: <u>1441</u>	
COMMENTS: <u>Heavy stream on purge water.</u>	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 41$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	<u>88.23</u>	<u>67.12</u>	<u>21.11</u>					<u>13.51</u>

TIME	<u>1426</u>	<u>1430</u>	<u>1436</u>	<u>1438</u>				
VOLUME PURGED (GAL)	<u>10gal.</u>	<u>20gal.</u>	<u>35</u>	<u>43</u>				
PURGE RATE (GPM)	<u>2.5gpm</u>	<u>2.5gpm</u>	<u>2.5gpm</u>	<u>2.5gpm</u>				
TEMPERATURE (°C)	<u>69.5</u>	<u>71.4</u>	<u>71.4</u>	<u>71.7</u>				
pH	<u>5.99</u>	<u>6.25</u>	<u>6.34</u>	<u>6.39</u>				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	<u>1473,</u>	<u>1307,</u>	<u>1183,</u>	<u>1163,</u>				
DISSOLVED OXYGEN (mg/L)								
eH(MV) Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>				
ODOR	<u>Strong HC odor</u>	<u>u. Strong HC odor</u>						
DEPTH OF PURGE INTAKE (FT)	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>				
DEPTH TO WATER DURING PURGE (FT)	<u>67.70</u>	<u>67.78</u>	<u>67.78</u>	<u>67.78</u>				
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consult

PROJECT NAME: DAC

WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1441

COMMENTS:

DEPTH SAMPLED (FT): 77'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-3S-14	4	VOA	HCL	—	160 ml	—	Clear	Yes	EQAO K260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 43 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Rainy

TEMPERATURE (SPECIFY °C OR °F): 55°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-4S</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>66.71</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Radio-Flow 2</u>
TIME START PURGE: <u>1008</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>1028</u>	
TIME SAMPLED: <u>1032</u>	
COMMENTS: <u>Slowed flow rate to approx. 500 ml/min for sample</u>	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			
						2	4	6	
	<u>89.70</u>	<u>66.71</u>		<u>22.99</u>		0.16	0.64	1.44	<u>14.71</u>

TIME	1012	1017	1022	1026	1028		
VOLUME PURGED (GAL)	5gal.	15gal.	30gal.	40gal.	45gal.		
PURGE RATE (GPM)	2gpm	2gpm	2gpm	2gpm	2gpm		
TEMPERATURE (°C)	68.7	71.1	71.3	71.3	71.8		
pH	7.06	7.41	7.42	7.42	7.41		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1364.	1404.	1318.	1266.	1288.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	No	No	No	No	No		
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	66.30	66.27	66.32	66.34	66.35		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consul

PROJECT NAME: DACWELL NUMBER: WCC-4SPROJECT NUMBER: 944016.01PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1032 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 77 \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT:
WCC4S-4	4	VOA's	HCL	—	160 ml	—	Clear	Yes	8240/1660	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 44 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: On-site drum storage \_\_\_\_\_DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled per well + etc.WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: RainyTEMPERATURE (SPECIFY °C OR °F): 55 °FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Sarah Bartling  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 2/29/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-5S</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>64.24</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1337</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>1410</u>	
TIME SAMPLED: <u>1413</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 49$ CASING VOLUME (GAL)
				2	4	6	
	<u>89.65</u>	<u>64.24</u>	<u>25.41</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>16.2 gal.</u>

TIME	1340	1347	1357	1401	1405	1408	1410
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.	50gal.	55gal
PURGE RATE (GPM)	1.5gpm	1.5gpm	1.5gpm	1.5gpm	2gpm	2gpm	2gpm
TEMPERATURE (°C)	74.6	75.0	72.9	72.6	71.9	71.5	72.1
pH	7.09	7.25	7.26	7.26	7.24	7.25	7.25
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected)	1403.	1392.	1273.	1261.	1258.	1241.	1252.
DISSOLVED OXYGEN (mg/L)							
eH(MV) Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	clear	clear	clear	clear
ODOR	No	No	No	No	No	No	No
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'	77'	77'
DEPTH TO WATER DURING PURGE (FT)	64.46	64.62	64.75	64.75	64.73	64.74	64.74
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 2/29/06

Kennedy/Jenks Consu

PROJECT NAME: DACWELL NUMBER: WCC-55PROJECT NUMBER: 944016.01PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1413

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 77'SAMPLING EQUIPMENT: Readi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC55-44	4	VOR	HCL	—	160 ml	—	Clear	Yes	5240 / 5260	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 55 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: On site drum storageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled as well # + dateWELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 70°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Sarah Bartling  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-6S</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>							
STATIC WATER LEVEL (FT): <u>67.12</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>							
TIME START PURGE: <u>1523</u>	PURGE DEPTH (FT) <u>77'</u>							
TIME END PURGE: <u>1541</u>								
TIME SAMPLED: <u>1545</u>								
COMMENTS:								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$x 3 = 44$ CASING VOLUME (GAL)	
				X	2	4		6
	<u>89.19</u>	<u>67.12</u>	<u>23.07</u>		0.16	0.64	1.44	<u>14.76</u>
TIME	<u>1526</u>	<u>1529</u>	<u>1536</u>	<u>1539</u>	<u>1541</u>			
VOLUME PURGED (GAL)	<u>5 gal.</u>	<u>15 gal.</u>	<u>30 gal.</u>	<u>40 gal.</u>	<u>47 gal.</u>			
PURGE RATE (GPM)	<u>2.5 gpm</u>	<u>2.5 gpm</u>	<u>2.5 gpm</u>	<u>2.5 gpm</u>	<u>2.5 gpm</u>			
TEMPERATURE (°C)	<u>69.2</u>	<u>70.8</u>	<u>70.9</u>	<u>70.9</u>	<u>71.6</u>			
pH	<u>6.02</u>	<u>6.48</u>	<u>6.51</u>	<u>6.53</u>	<u>6.53</u>			
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>749.</u>	<u>781.</u>	<u>863.</u>	<u>898.</u>	<u>912</u>			
DISSOLVED OXYGEN (mg/L)								
eH(MV) Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>			
ODOR	<u>Strong</u> <u>hyd. odor</u>	<u>Strong</u> <u>hyd. odor</u>	<u>Strong</u> <u>hyd. odor</u>	<u>Strong</u> <u>hyd. odor</u>	<u>Strong</u> <u>hyd. odor</u>			
DEPTH OF PURGE INTAKE (FT)	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>			
DEPTH TO WATER DURING PURGE (FT)	<u>67.85</u>	<u>68.32</u>	<u>68.50</u>	<u>68.48</u>	<u>68.48</u>			
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consult

PROJECT NAME: DACWELL NUMBER: WCC-65PROJECT NUMBER: 944016.01PERSONNEL: Susan ScrimshireSAMPLE DATA:TIME SAMPLED: 1545COMMENTS: EB-030496 collected atDEPTH SAMPLED (FT): 771605 (Equipment Rinse)SAMPLING EQUIPMENT: Redi-Flow 2(Blank)

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
<u>WCCS-4</u>	<u>4</u>	<u>VOA</u>	<u>HCL</u>	<u>—</u>	<u>160ml</u>	<u>—</u>	<u>clear</u>	<u>Yes</u>	<u>5240</u> <u>5260</u>	
<u>EB-030496</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>"</u>	<u>"</u>	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 47 gal.

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: on site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: RainingTEMPERATURE (SPECIFY °C OR °F): 55°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Sarah Bartling

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-7S</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>64.75</u>	MEASURING POINT DESCRIPTION: _____
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1405</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>1425</u>	
TIME SAMPLED: <u>1430</u>	
COMMENTS: _____	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			
						2	4	6	
	<u>89.00</u>	<u>64.75</u>	=	<u>24.25</u>	X	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>15.52</u>

TIME	1406	1410	1414	1417	1421	1423	1425
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.	50gal	55gal.
PURGE RATE (GPM)	2.5gpm						
TEMPERATURE (°C)	73.9	74.7	74.7	74.7	73.9	73.5	73.1
pH	7.64	7.43	7.44	7.44	7.41	7.42	7.43
SPECIFIC CONDUCTIVITY ( <u>micromhos</u> ) (uncorrected) cm	1851.	1760.	1482.	1407	1305.	1255.	1256.
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear						
ODOR	No						
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'	77'	77'
DEPTH TO WATER DURING PURGE (FT)	65.40	65.45	65.50	65.50	65.50	65.50	65.50
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consult.

PROJECT NAME:	<u>DAC</u>						WELL NUMBER: <u>WCC-75</u>			
PROJECT NUMBER:	<u>944016.01</u>						PERSONNEL: <u>Shane Scrimshire</u>			
<u>SAMPLE DATA:</u>										
TIME SAMPLED:	<u>1430</u>				COMMENTS: <u>E3-030196 is an equipment rinseate blank collected at 1450</u>					
DEPTH SAMPLED (FT):	<u>77</u>									
SAMPLING EQUIPMENT:	<u>Redi-Flow 2</u>									
SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
<u>WCC75-14</u>	<u>4</u>	<u>VOA</u>	<u>HCL</u>	<u>NO</u>	<u>160ml</u>	<u>—</u>	<u>Clear</u>	<u>Yes</u>	<u>5240/5260</u>	
<u>E3-030196</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>"</u>	<u>—</u>	<u>"</u>	<u>"</u>	<u>"</u>	
<u>PURGE WATER DISPOSAL NOTES:</u>										
TOTAL DISCHARGE (GAL):	<u>55 gal.</u>				COMMENTS: _____					
DISPOSAL METHOD:	<u>On site drum storage</u>									
DRUM DESIGNATION(S)/VOLUME PER (GAL):					<u>1 drum labelled with date + well #</u>					
<u>WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):</u>										
WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:	<input checked="" type="checkbox"/> YES				NO					
INSIDE OF WELL HEAD AND OUTER CASING DRY?:	<input checked="" type="checkbox"/> YES				NO					
WELL CASING OK?:	<input checked="" type="checkbox"/> YES				NO					
COMMENTS:										
<u>GENERAL:</u>										
WEATHER CONDITIONS:	<u>Clear</u>									
TEMPERATURE (SPECIFY °C OR °F):	<u>68°F</u>									
PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING?	<u>NO</u>									
cc: Project Manager:	<u>Sarah Banting</u>									
Job File:										
Other:										

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultant

PROJECT NAME: DAC

WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.01

PERSONNEL: Strange Scrimshire

STATIC WATER LEVEL (FT): 66.32

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1522

PURGE DEPTH (FT) 77'

TIME END PURGE: 1539

TIME SAMPLED: 1604

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 44 \text{ gal.}$ CASING VOLUME (GAL)
				2	4	6	
				0.16	0.64	1.44	
	89.25	66.32	22.93				(4.67)

TIME	1527	1532	1535	1538	1539	
VOLUME PURGED (GAL)	10	20	30	40	45	
PURGE RATE (GPM)	3gpm	3gpm	3gpm	3gpm	3gpm	
TEMPERATURE (°C)	73.9	72.9	73.2	72.8	72.7	
pH	7.36	7.08	7.06	7.06	7.09	
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1800.	1791.	1799.	1779.	1776.	
DISSOLVED OXYGEN (mg/L)						
eH(MV)Pt-AgCl ref.						
TURBIDITY/COLOR	Clear	clear	clear	clear	clear	
ODOR	No	No	No	No	No	
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'	
DEPTH TO WATER DURING PURGE (FT)	67.20	67.32	67.35	67.40	67.40	
NUMBER OF CASING VOLUMES REMOVED						
DEWATERED?						

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultant:

OBJECT NAME: DAC

WELL NUMBER: WCC-8S

OBJECT NUMBER: 944016.01

PERSONNEL: Shore Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1604

COMMENTS: DW-030196 is a duplicate  
sample collected from  
WCC-8S.

DEPTH SAMPLED (FT): 77

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-8S-14	4	VDA HCL	NO	160ml	—	Clear	Yes	5240	5260	
W-030196	"	"	"	"	—	"	"	"	"	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal.

COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled with date &amp; well #.

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 65° F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 2/29/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>OAC</u>	WELL NUMBER: <u>WCC-95</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>							
STATIC WATER LEVEL (FT): <u>63.50</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>							
TIME START PURGE: <u>1520</u>	PURGE DEPTH (FT) <u>77'</u>							
TIME END PURGE: <u>1540</u>								
TIME SAMPLED: <u>1544</u>								
COMMENTS:								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 49$ CASING VOLUME (GAL)
					2	4	6	
	<u>89.20</u>	<u>63.50</u>	<u>25.70</u>		<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>16.4</u>
TIME	<u>1522</u>	<u>1527</u>	<u>1532</u>	<u>1537</u>	<u>1540</u>			
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>30gal.</u>	<u>40gal.</u>	<u>50gal.</u>			
PURGE RATE (GPM)	<u>2.5gpm</u>	<u>2.5gpm</u>	<u>2.5gpm</u>	<u>2.5gpm</u>	<u>2.5gpm</u>			
TEMPERATURE (°C)	<u>67.6</u>	<u>69.2</u>	<u>68.2</u>	<u>68.6</u>	<u>67.8</u>			
pH	<u>7.50</u>	<u>7.40</u>	<u>7.36</u>	<u>7.40</u>	<u>7.45</u>			
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>1278.</u>	<u>1024.</u>	<u>1013.</u>	<u>1024.</u>	<u>1016.</u>			
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>			
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>			
DEPTH OF PURGE INTAKE (FT)	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>			
DEPTH TO WATER DURING PURGE (FT)	<u>64.40</u>	<u>64.45</u>	<u>64.44</u>	<u>64.44</u>	<u>64.44</u>			
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

PROJECT NAME: DACWELL NUMBER: WCC-95PROJECT NUMBER: 944016.01PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1544COMMENTS: ER-022996 is an EquipmentDEPTH SAMPLED (FT): 77'Rinsate blank collected @SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
ER-022996	4	VOA	HCl	NO	160 ml	—	Clear	Yes	8240 8260	
WCCGS-4	4	VOA	HCl	NO	160 ml	—	Clear	Yes	8240 8260	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 50 gal.

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: On site drum storageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled with well # + date.WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 70°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NOcc: Project Manager: Sarah Bartling

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-10S</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>66.35</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>827</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>848</u>	
TIME SAMPLED: <u>852</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 44 \text{ gal.}$ CASING VOLUME (GAL)
				2	4	6	
				0.16	0.64	1.44	
	<u>89.50</u>	<u>66.35</u>	<u>23.15</u>				<u>14.81</u>

TIME	<u>829</u>	<u>834</u>	<u>840</u>	<u>843</u>	<u>848</u>	
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>25gal.</u>	<u>35gal.</u>	<u>45gal.</u>	
PURGE RATE (GPM)	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>	<u>2gpm</u>	
TEMPERATURE (°C)	<u>66.2</u>	<u>70.6</u>	<u>72.3</u>	<u>72.3</u>	<u>71.8</u>	
pH	<u>7.20</u>	<u>7.36</u>	<u>7.36</u>	<u>7.33</u>	<u>7.33</u>	
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>855.</u>	<u>890.</u>	<u>902.</u>	<u>908.</u>	<u>914.</u>	
DISSOLVED OXYGEN (mg/L)						
eH(MV)Pt-AgCl ref.						
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>clear</u>	<u>clear</u>	
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	
DEPTH OF PURGE INTAKE (FT)	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>	<u>77'</u>	
DEPTH TO WATER DURING PURGE (FT)	<u>67.40</u>	<u>67.45</u>	<u>67.55</u>	<u>67.60</u>	<u>67.60</u>	
NUMBER OF CASING VOLUMES REMOVED						
DEWATERED?						

PROJECT NAME: DACWELL NUMBER: WCC-105PROJECT NUMBER: 944016.01PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 852

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 77SAMPLING EQUIPMENT: redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS:
WCC105-14	4	VOA	HCl	—	160ml	—	Clear	Yes	EC40/ 8360	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 45gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: On site drum storageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled with well # + date.WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 60°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Sarah Bartling  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-115</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>65.16</u>	MEASURING POINT DESCRIPTION: <u>Top of casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1035</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>1049</u>	
TIME SAMPLED: <u>1053</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 46 \text{ gal.}$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	<u>89.30</u>	<u>65.16</u>	<u>=</u>	<u>24.14</u>				<u>1544</u>

TIME	1037	1040	1043	1046	1049		
VOLUME PURGED (GAL)	5gal.	15gal.	25gal.	35gal.	45gal.		
PURGE RATE (GPM)	3gpm	3gpm	3gpm	3gpm	3gpm		
TEMPERATURE (°C)	73.8	72.6	72.3	72.2	72.1		
pH	7.53	7.40	7.40	7.39	7.40		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1268.	1250.	1250.	1252.	1270.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	No	No	No	No	No		
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'		
DEPTH TO WATER DURING PURGE (FT)	69.45	69.75	69.95	70.05	70.15		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consu

PROJECT NAME: DAC

WELL NUMBER: WCC-115

PROJECT NUMBER: 944016.01

PERSONNEL: Strange Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1053 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 77'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
WCC11514	4	VOA	HCL	NO	160ml	—	clear	Yes	8240 8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: On-site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled with date + well #

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Sarah Bartling  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-125</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>63.32</u>	MEASURING POINT DESCRIPTION: <u>Top of casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1134</u>	PURGE DEPTH (FT) <u>77'</u>
TIME END PURGE: <u>1152</u>	
TIME SAMPLED: <u>1156</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 50 \text{ gal.}$ CASING VOLUME (GAL)
						2	4	6	
						0.16	0.64	1.44	
	<u>89.20</u>	<u>63.32</u>	<u>=</u>	<u>25.88</u>	<u>X</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>16.5</u>

TIME	1136	1140	1144	1148	1152	
VOLUME PURGED (GAL)	5gal.	15 gal.	25 gal.	40 gal.	50 gal.	
PURGE RATE (GPM)	2.5gpm	2.5gpm	2.5gpm	2.5gpm	2.5gpm	
TEMPERATURE (°C)	78.8	78.0	77.4	76.9	76.3	
pH	7.75	7.51	7.52	7.51	7.45	
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1453.	1344.	1255.	1239.	1251	
DISSOLVED OXYGEN (mg/L)						
eH(MV)Pt-AgCl ref.						
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	
ODOR	No	No	No	No	No	
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'	77'	77'	
DEPTH TO WATER DURING PURGE (FT)	65.05	65.05	65.15	65.20	65.21	
NUMBER OF CASING VOLUMES REMOVED						
DEWATERED?						

## Groundwater Purge and Sample Form

Date: 3/1/96

Kennedy/Jenks Consul

PROJECT NAME: DACWELL NUMBER: WCC-12 SPROJECT NUMBER: 944016.01PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1156 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 77 \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT:
WCC0514	4	VOA	HCl	—	160mL	—	Clear	Yes	5240 / 5260	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 50 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: On site drum storage \_\_\_\_\_DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled with date & well # \_\_\_\_\_WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: Clear \_\_\_\_\_TEMPERATURE (SPECIFY °C OR °F): 70°F \_\_\_\_\_PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No \_\_\_\_\_cc: Project Manager: Sarah Bartling

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>DAC-P1</u>							
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scimone</u>							
STATIC WATER LEVEL (FT): <u>67.84</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>							
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Reci-Flow 2</u>							
TIME START PURGE: <u>1634</u>	PURGE DEPTH (FT) <u>88'</u>							
TIME END PURGE: <u>1707</u>								
TIME SAMPLED: <u>1712</u>								
COMMENTS: <u>Battery in pH, cond, temp meter is getting low.</u> <u>Parameters not stabilizing as quickly as they</u> <u>should because of low battery.</u>								
WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$k_3 = 42$	CASING VOLUME (GAL)
				X	2	4		
	<u>89.90</u>	<u>67.84</u>	<u>22.06</u>		<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>14.11</u>
TIME	<u>1639</u>	<u>1644</u>	<u>1652</u>	<u>1659</u>	<u>1707</u>			
VOLUME PURGED (GAL)	<u>5gal.</u>	<u>15gal.</u>	<u>25gal.</u>	<u>35gal.</u>	<u>45gal.</u>			
PURGE RATE (GPM)	<u>1.5gpm</u>	<u>1.5gpm</u>	<u>1.5gpm</u>	<u>1.5gpm</u>	<u>1.5gpm</u>			
TEMPERATURE (°C)	<u>70.3</u>	<u>69.6</u>	<u>70.8</u>	<u>71.0</u>	<u>71.3</u>			
pH	<u>8.31</u>	<u>8.50</u>	<u>8.36</u>	<u>8.35</u>	<u>8.40</u>			
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>865</u>	<u>791.</u>	<u>850.</u>	<u>938</u>	<u>940.</u>			
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>			
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>			
DEPTH OF PURGE INTAKE (FT)	<u>88'</u>	<u>88'</u>	<u>88'</u>	<u>88'</u>	<u>88'</u>			
DEPTH TO WATER DURING PURGE (FT)	<u>70.10</u>	<u>70.0</u>	<u>69.90</u>	<u>69.95</u>	<u>69.92</u>			
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consul

PROJECT NAME: DACWELL NUMBER: DAC-PIPROJECT NUMBER: 944016.01PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1712 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 88 \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT
DACPI-14	4	VOA	HCl	—	160 ml	—	clear	yes	8240 / 6260	
DW-030496	"	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 45 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: On site drum storage \_\_\_\_\_DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum labelled per well + dateWELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: RainyTEMPERATURE (SPECIFY °C OR °F): 55°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NOcc: Project Manager: Sarah Banting  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 2/29/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-1D</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>66.60</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1655</u>	PURGE DEPTH (FT) <u>90'</u>
TIME END PURGE: <u>1735</u>	
TIME SAMPLED: <u>1740</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 13.2$ CASING VOLUME (GAL)
							2	4	6	
							0.16	0.64	1.44	
	<u>135.75</u>		<u>66.60</u>		<u>69.15</u>					<u>44.25</u>

TIME	<u>1657</u>	<u>1710</u>	<u>1721</u>	<u>1731</u>	<u>1735</u>		
VOLUME PURGED (GAL)	<u>10 gal.</u>	<u>40 gal.</u>	<u>80 gal.</u>	<u>120 gal.</u>	<u>135 gal.</u>		
PURGE RATE (GPM)	<u>3 gpm</u>	<u>3 gpm</u>	<u>4 gpm</u>	<u>4 gpm</u>	<u>4 gpm</u>		
TEMPERATURE (°C)	<u>66.6</u>	<u>70.5</u>	<u>70.0</u>	<u>68.7</u>	<u>70.3</u>		
pH	<u>7.67</u>	<u>7.64</u>	<u>7.69</u>	<u>7.70</u>	<u>7.69</u>		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>661.</u>	<u>715.</u>	<u>676.</u>	<u>665.</u>	<u>673.</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>		
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>		
DEPTH OF PURGE INTAKE (FT)	<u>90'</u>	<u>90'</u>	<u>90'</u>	<u>90'</u>	<u>90'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>70.55</u>	<u>71.00</u>	<u>71.98</u>	<u>71.95</u>	<u>71.95</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

PROJECT NAME: <u>DAC</u>					WELL NUMBER: <u>WCC-1D</u>					
PROJECT NUMBER: <u>944016.01</u>					PERSONNEL: <u>Shane Scrimshire</u>					
<u>SAMPLE DATA:</u>										
TIME SAMPLED: <u>1740</u>					COMMENTS: _____					
DEPTH SAMPLED (FT): <u>90'</u>					_____					
SAMPLING EQUIPMENT: <u>Redi - Flow 2</u>										
SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS:
WCC1D-14	4	VOA	HCl	—	160 ml	—	Clear	Yes	<u>2240</u> / <u>5260</u>	
DW-020996	"	"	"	—	"	—	Clear	Yes	"	
<u>PURGE WATER DISPOSAL NOTES:</u>										
TOTAL DISCHARGE (GAL): <u>135</u>					COMMENTS: _____					
DISPOSAL METHOD: <u>On site drum storage</u>										
DRUM DESIGNATION(S)/VOLUME PER (GAL): <u>3 drums labelled with well # + date</u>										
<u>WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):</u>										
WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: <input checked="" type="checkbox"/> YES NO										
INSIDE OF WELL HEAD AND OUTER CASING DRY?: <input checked="" type="checkbox"/> YES NO										
WELL CASING OK?: <input checked="" type="checkbox"/> YES NO										
COMMENTS: _____ _____ _____										
<u>GENERAL:</u>										
WEATHER CONDITIONS: <u>Clear</u>										
TEMPERATURE (SPECIFY °C OR °F): <u>68°F</u>										
PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? <u>No</u>										
_____ _____										
cc: Project Manager: <u>Sarah Bartling</u>										
Job File: _____										
Other: _____										

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consultants

PROJECT NAME: <u>DAC</u>	WELL NUMBER: <u>WCC-3D</u>
PROJECT NUMBER: <u>944016.01</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>67.13</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Elec. Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1230</u>	PURGE DEPTH (FT) <u>135'</u>
TIME END PURGE: <u>1330</u>	
TIME SAMPLED: <u>1335</u>	
COMMENTS:	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 138$ CASING VOLUME (GAL)
							2	4	6	
							0.16	0.64	1.44	
	<u>138.81</u>		<u>67.13</u>		<u>71.68</u>					<u>45.87</u>

TIME	<u>1234</u>	<u>1245</u>	<u>1305</u>	<u>1320</u>	<u>1330</u>		
VOLUME PURGED (GAL)	<u>10gal.</u>	<u>40gal.</u>	<u>80gal.</u>	<u>120gal.</u>	<u>140gal.</u>		
PURGE RATE (GPM)							
TEMPERATURE (°C)	<u>75.6</u>	<u>70.7</u>	<u>69.7</u>	<u>68.9</u>	<u>69.7</u>		
pH	<u>7.81</u>	<u>7.70</u>	<u>7.48</u>	<u>7.37</u>	<u>7.34</u>		
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected)	<u>731.</u>	<u>671.</u>	<u>615.</u>	<u>610.</u>	<u>615.</u>		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>		
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>		
DEPTH OF PURGE INTAKE (FT)	<u>35'</u>	<u>135'</u>	<u>135'</u>	<u>135'</u>	<u>135'</u>		
DEPTH TO WATER DURING PURGE (FT)	<u>78.50</u>	<u>90.53</u>	<u>93.40</u>	<u>93.65</u>	<u>93.70</u>		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 3/4/96

Kennedy/Jenks Consul

PROJECT NAME: DAC

WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1335

COMMENTS: ~~3/4/96~~ is a duplicate

DEPTH SAMPLED (FT): 135

~~sample collected From~~

SAMPLING EQUIPMENT: Redi-Flow 2

~~WCC-3D~~, Collected From DAC-

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENT:
WCC3D-14	4	VIALS	HCL	—	160mL	—	Clear	Yes	2240/6260	
<del>3/4/96</del>	"	"	"	"	"	"	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 140 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums labelled per well # + date.

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Rainy

TEMPERATURE (SPECIFY °C OR °F): 55°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Sarah Bartling  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

**APPENDIX D**  
**CHAIN-OF-CUSTODY RECORDS**





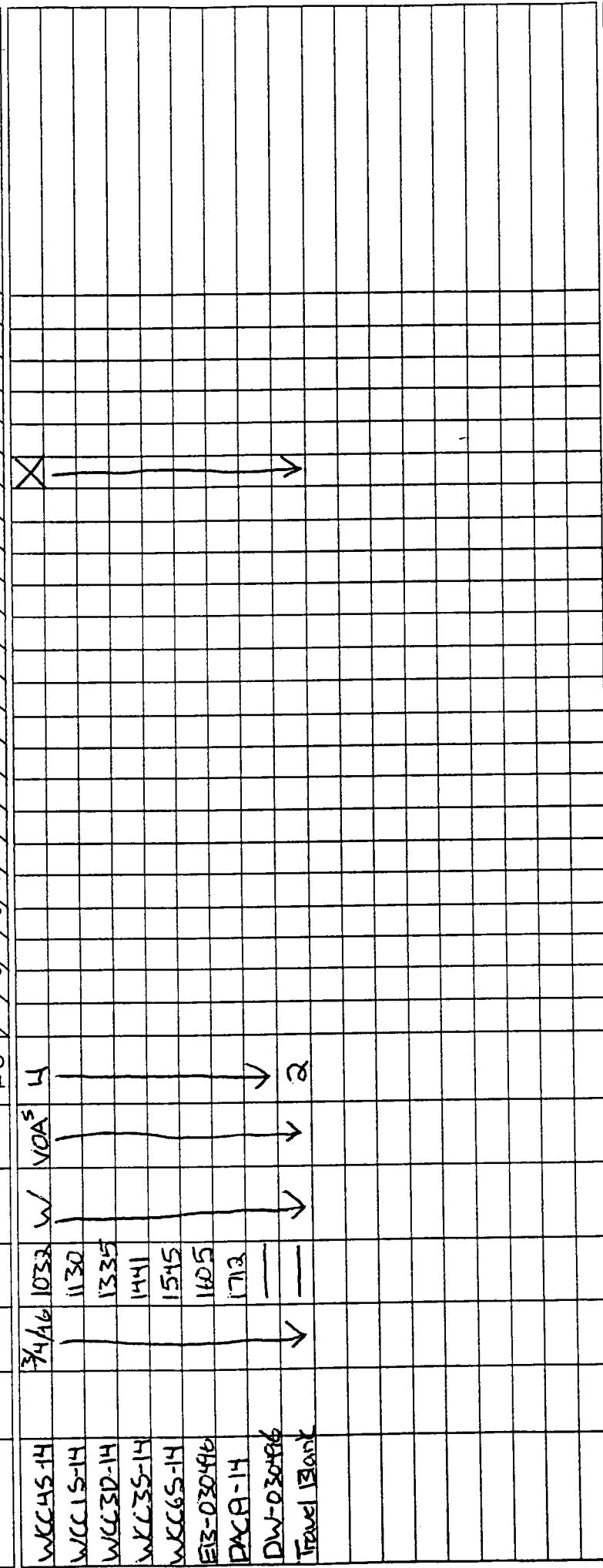


Curtis & Tompkins, Ltd. General Analytical Laboratories  
2495 Da Vinci, Irvine, CA 92714

Phone (714)252-9700 Fax (714)252-9701

**CHAIN-OF-CUSTODY RECORD**

Sample ID	Depth	Date	Time	Sample Type	Container	Total Number of Contaminants	ANALYSES ONLY	60218020	BTEX	80151VH	413-1	60818080	PCBS ONLY	62418240	TTE 26 Metals	Wet Extraction	TCLP Extraction	ZHE Extraction	8260 F3140	LAB#	Field Notes:
WCC45-14		3/4/96	1032	W/ VOA's	4																213865'
WCC15-14			1130																		
WCC3D-14			1335																		
WCC3S-14			1441																		
WCC6S-14			1545																		
E3-030496			1605																		
DCA-14			1713																		
DW-030496																					
Travel Blank																					



RElinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time	LABORATORY NOTES:	
<i>Sarah Bartling</i>	3/5/96 1100	<i>Sarah Bartling</i>	3/6/96 1100		
RElinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time		
<i>Sarah Bartling</i>					
RElinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time		
<i>Sarah Bartling</i>					

SEND ANALYTICAL REPORT TO: <i>Sarah Bartling</i>	Date/Time	Received By: (Signature)	Date/Time	CLIENT JOB I.D.: <u>944016,01</u>	
COMPANY: <i>Kennedy / Tuck Consultants</i>	<i>3/5/96 1100</i>	<i>Sarah Bartling</i>	<i>3/6/96 1100</i>		
ADDRESS: <i>2151 Mickelson Dr. Ste. 100</i>	Date/Time	Received By: (Signature)	Date/Time	CLIENT P.O. NO.: _____	
CITY: <i>Irvine</i>				C&T QUOTE NO.: _____	
STATE: <i>CA</i> , ZIP CODE: <u>92715</u>				\$5 / sample / month will be charged	
PHONE NUMBER: <u>714-264-1577</u>	FAX NUMBER:			SAMPLING LOCATION: <u>DAC</u>	
PROJECT MANAGER: <i>Sarah Bartling</i>				COLLECTOR: <i>Sarah Bartling</i>	